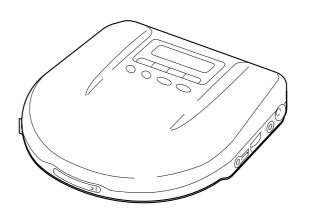
# D-E707/E775

## **SERVICE MANUAL**

Ver 1.1 1999, 02



US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model
Chinese Model

Tourist Model

Model Name Using Similar Mechanism	D-E700/E705
CD Mechanism Type	CDM-2911EBA
Optical Pick-Up Name	DAX-11E

### SPECIFICATIONS

### **CD** player section

System

Compact disc digital audio system

Laser diode properties

Material: GaAlAs

Wavelength: λ=780 nm

Emission duration: Continuous

Laser output: Less than  $44.6~\mu W$  (This output is the value measured at a distance of 200 mm from the objective lens surface on the optical pick-up block with 7 mm aperture.)

### Error correction

Sony Super Strategy Cross Interleave Reed Solomon Code

### D-A conversion

1-bit quartz time-axis control

### Frequency response

20-20,000 Hz  $^{+1}_{-2}$  dB (measured by EIAJ CP-307)

### Output (at 4.5 V input level)

Headphones (stereo minijack)

15 mW + 15 mW at 16 ohms

Line output (stereo minijack)

Output level 0.7 V rms at 47 kilohms Recommended load impedance over 10

kilohms

Optical digital output (optical output

connector)

Output level: -21 to -15 dBm

Wavelength: 630 – 690 nm at peak level

### General

Power requirements

For the area code of the model you purchased, check the upper left side of the bar code on the package.

- Two Sony NH-DM2AA rechargeable batteries: 2.4 V DC
  - Two Sony NC-DMAA rechargeable batteries: 2.4 V DC
- Two LR6 (size AA) batteries: 3 V DC
- AC power adaptor (DC IN 4.5 V jack): US/Canadian model: 120 V, 60 Hz AEP/E13 model: 220 – 230 V, 50/60 Hz UK model: 230 – 240 V, 50 Hz Australian model: 240 V, 50 Hz Tourist/E33 model: 100 – 240 V, 50/60 Hz Hong Kong model: 220 V, 50/60 Hz Chinese model: 220 V, 50 Hz
- Sony DCC-E245 car battery cord for use on car battery: 4.5 V DC

Dimensions (w/h/d) (without projecting parts and controls)

Approx.  $131.8 \times 23.9 \times 142.0 \text{ mm}$ 

 $(5^{1/4} \times {}^{31/32} \times 5^{5/8} \text{ in.})$ 

Mass (without rechargeable batteries)

Approx. 200 g (7.0 oz) Operating temperature

5 °C – 35 °C (41 °F – 95 °F)

### Supplied accessories

For the area code of the model you purchased, check the upper left side of the bar code on the package.

AC power adaptor (1)

Headphones with remote control (1)\*1

Earphones with remote control (1)\*2

Rechargeable batteries (2)

AC plug adaptor (1)\*3

Battery carrying case (1)

Carrying case (1)

- \*1 Supplied with US model
- \*2 Not supplied with US model
- \*3 Supplied with Tourist, E33 and E13 models

Design and specifications are subject to change without notice.

Abbreviation

E13: 220 – 230 V AC area in E model E33: 100 – 240 V AC area in E model

COMPACT DISC COMPACT PLAYER





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This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

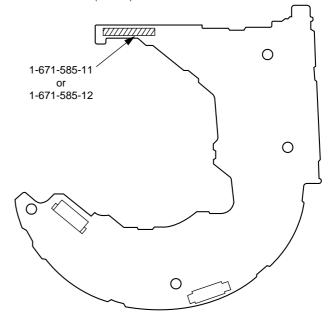
CLASS 1 LASER PRODUCT LUOKAN 1 LASERLAITE KLASS 1 LASERAPPARAT

### **CAUTION**

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

### **Discrimination of MAIN board**

- MAIN BOARD (Side A) -



### Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 °C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

### Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

### SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK  $\triangle$  OR DOTTED LINE WITH MARK  $\triangle$  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

## ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE A SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

## SECTION 1 SERVICING NOTES

## NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

### Befor Replacing the Optical Pick-Up Block

Please be sure to check thoroughly the parameters as par the "Optical Pick-Up Block Checking Procedures" (Part No.: 9-960-027-11) issued separately before replacing the optical pick-up block. Note and specifications required to check are given below.

- FOK output: IC501 ② pin
  When checking FOK, remove the lead wire to disc motor.
- S curve P-to-P value: 0.6 to 1.8 Vp-p IC501 ③ pin
  When checking S curve P-to-P value, remove the lead wire to
  disc motor.
- RF signal P-to-P value: 0.8 to 1.2 Vp-p
  Traverse signal P-to-P value: 1.2 Vp-p
- The repairing grating holder is impossible.

### **Precautions for Checking Emission of Laser Diode**

Laser light of the equipment is focused by the object lens in the optical pick-up so that the light focuses on the reflection surface of the disc. Therefore, be sure to keep your eyes more then 30 cm apart from the object lens when you check the emission of laser diode.

### **Laser Diode Checking Methods**

During normal operation of the equipment, emission of the laser diode is prohibited unless the upper panel is closed while turning ON the S801. (push switch type)

The following two checking methods for the laser diode are operable.

- Method (In the service mode or normal operation):
   Emission of the laser diode is visually checked.
- 1. Open the upper lid.
- 2. Push the S801 as shown in Fig. 1.
- 3. Press the ►II key.
- 4. Check the object lens for confirming normal emission of the laser diode. If not emitting, there is a trouble in the automatic power control circuit or the optical pick-up.

During normal operation, the laser diode is turned ON about 2.5 seconds for focus searching.

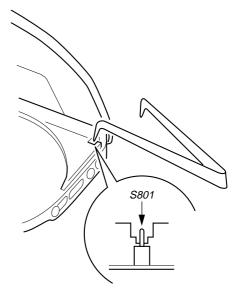
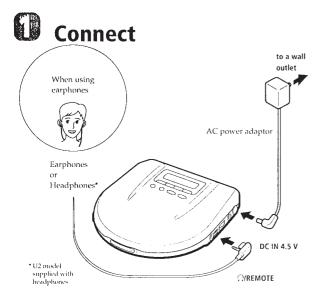


Fig. 1 Method to push the \$801

### **SECTION 2 GENERAL**

## **Playing a CD right** away!

If you want to play a CD right now, choose to use your player on house current. Other choices are the following three: rechargeable battery, dry batteries (see "Power Sources" on the reverse side) and car battery.



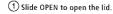
For models supplied with the AC plug adaptor. If the AC power adaptor does not fit the wall outlet, use the AC plug adaptor.

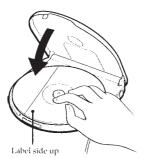
### For models supplied with the remote control

- Connect the plug of the earphones/headphones to the remote control.
  Connect the earphones/headphones to the remote control firmly. A loose connection may





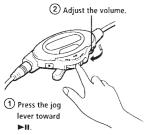




- 2 Fit the CD to the pivot.
- 3 Close the lid.



## **Play**

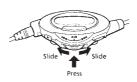




To stop play, press

### To use the remote control

The lever marked with I◀ -►II-►►I is the jog lever. When you press or slide the lever, operation starts



То	Do this
Pause	Press the jog lever toward ►II.
Resume play after pause	Press the jog lever toward ►II.
Find the beginning of the current track (AMS*)	Slide the jog lever toward I◀ once.*
Find the beginning of previous tracks (AMS)	Slide the jog lever toward I◀◀ repeatedly.**
Find the beginning of the next track (AMS)	Slide the jog lever toward ►► once.**
Find the beginning of succeeding tracks (AMS)	Slide the jog lever toward ►►I repeatedly.**
Go forward quickly	Slide and hold the jog lever toward >>1.**
Go backwards quickly	Slide and hold the jog lever toward

\*AMS = Automatic Music Sensor
\*\*These operations are possible during both play and pause

If you press RPT/ENT (REPEAT/ENTER on the 

You can do the operations shown in the above table using the buttons with the same marks on the player

To remove the CD Remove the CD while pressing the pivot.



### Notes on controlling the volume with the remote control

Set the VOL (volume) control on the remote control to the maximum. Then adjust the volume on the player to the level that you want to be the maximum volume of the remote control.

- Notes on display

   When you press ►II (when RESUME is set to OFF), the total number of tracks in the CD and the total playing time appear for about 2 seconds

- seconds.

  During play, the track number and the clapsed playing time of the current track appear.

  During pause, the clapsed playing time flashes in the display.

  Between tracks, the time to the beginning of the next track will appear with the "-" indication.

### This section is extracted from instruction manual.

### Illumination of the display on the remote

illumination or the display on the remote control
When using the player on the AC power adaptor or car battery, the display is always illuminated. (Light of the display goes out when you press ■ and the CD stops.) you press ■ and the CD stops.)
When you use the player on the rechargeable batteries or alkaline batteries, the display is illuminated for about 5 seconds when you press any operation button. But, when using the optical digital connecting cord, the display is not illuminated. When you press the LIGHT button on the remote control, the display is illuminated for about 5 seconds.
You can turn off the illumination of the display by first removing the rechargeable batteries or alkaline batteries; then while pressing the PLAY MODE button, reinsert the batteries.

- Notes on handling CDs

  To keep the CD clean, handle it by its edge. Do not touch the surface.

  Do not stick paper or tape onto the CD.

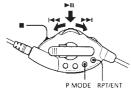
  Do not expose the CD to direct sunlight or heat sources such as hot air ducts. Do not leave the CD in a car parked under direct



### **▶**Other Operations

### Playing tracks repeatedly (Repeat Play)

You can play tracks repeatedly in normal, INTRO PGM, shuffle or RMS (Random Music Sensor) play modes. Repeat all the tracks, only one track or the specified part within the



### To repeat all the tracks

Press RPT/ENT (REPEAT/ENTER on the player) during play. The "=" indication appears



To cancel repeat play, press RPT/ENT again.

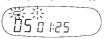
### To repeat a single track

1 Press RPT/ENT while the track you want to repeat is playing.
The "

" indication appears



2 Press P (play) MODE (PLAY MODE on the player) repeatedly until "1" appears.



To repeat another track, slide the jog lever toward I◀◀ or ▶► .

To cancel repeat play, press RPT/ENT again

### To repeat the specified part within

the same track (LOOP Play)

1 During play, press P MODE repeatedly until "A ← B" flashes in the display.



2 Press RPT/ENT to set the point (point A) where you want to start repeat play Point A is stored in the memory.



3 Press RPT/ENT again to set the point (point B) where you want to stop repeat play.
Point B is stored in the memory, and repeat

play starts from point A



To change points A and B, press and hold RPT/ENT until "A+-+B" flashes in the display, then do steps 2 and 3 again.

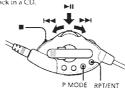
To set points A and B on other tracks, slide the jog lever toward I◄ or ►► to select another track, then do steps 2 and 3 again

If you press ■, the stored points will be erased. To prevent accidental erasure, set the RESUME switch at the rear of the player to

To cancel repeat play, press P MODE until " $A \longleftrightarrow B$ " disappears from the display.

### Playing only the tracks you want (INTRO PGM Play)

You can choose and play your favorite tracks by scanning through the beginning of each track in a CD.



During play, press P MODE repeatedly until "INTRO PGM" flashes.



2 Press the jog lever toward ►II to start scanning.
The player plays about the first 15 seconds of each track and "INTRO PGM"

3 Press RPT/ENT while the track you want is playing. To skip the track, slide the jog lever toward ► or just wait for the next track.

After you have gone through the CD, "INTRO PGM" stops flashing and the tracks you have chosen play automatically.

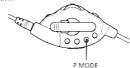
To finish programing before going through the whole CD, press the jog lever toward ▶II. The selected tracks will be played.

If you press , the program will be erased. To prevent accidental erasure, set the RESUME switch at the rear of the player to ON

To cancel INTRO PGM play, press P MODE repeatedly until the play mode indication disappears from the display.

### Playing tracks in random order (Shuffle Play)

You can play the tracks in a CD in random



During play, press P MODE repeatedly until "SHUF" appears.
The tracks play in random order.

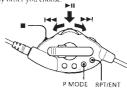


To cancel shuffle play, press P MODE repeatedly until the play mode indication disappears from the display.

During shuffle play, you cannot return to previous tracks by sliding the jog lever toward

### Playing tracks in the order you want (RMS play)

You can program up to 22 tracks to play in any order you choose.



1 During play, press P MODE repeatedly until "RMS" flashes.



\*RMS = Random Music Sen

2 Slide the jog lever toward I or ▶ to choose a track.
The track number and the playing order appear



3 Press RPT/ENT to program the track.

**4** Repeat steps 2 and 3 to program the remaining tracks.

5 Press the jog lever toward ►II.

"RMS" stops flashing and the tracks you have chosen play in the order you specified.

If you press **a**, the program will be erased. To prevent accidental erasure, set the RESUME switch at the rear of the player to ON.

To cancel RMS play, press P MODE until "RMS" disappears from the display.

### To check the program

During programing: Press RPT/ENT before step 5

During RMS play:
Press P MODE repeatedly until "RMS"
flashes, then press RPT/ENT.
Each time you press RPT/ENT, the track number and the playing order appear in the order you specified.

If you program another track after the 22nd track, the first track programed is cleared and the new track is programed instead.

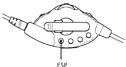
### Using other functions

### To minimize skipping (ESP2)

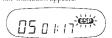
The ESP (Electronic Shock Protection) function minimize skipping by using a buffer memory that stores music data and plays it

back in the event of a shock. The new ESP<sup>2</sup> (ESP Squared) system uses a new DSP (Digital Signal Processor) which can read and store music data more efficiently and with superior sound quality, providing a level of continuous skip protection not found in traditional buffer memory units. This decreases the frequency of sound skipping and the need to utilize the buffer memory. and the need to utilize the buffer memory. Use this function when listening in a car or while walking.\*

\* Although ESP provides excellent protection against skipping, it will not prevent skipping while jogging or running.



Press ESP. The ESP indication appears



To release the ESP function, press ESP again

- Playing may stop when the player gets a strong shock even with the ESP function on

- shock even with the ESP function on.

  You may hear a noise or sound skip when:

   listening to a dirty or scratched CD,

   listening to an audio test CD or,

   the player receives continuous shock.

  Sound may drop for a while if you press ESP during play.

  When you use an optical digital connecting cord, the ESP function will be disabled.

### To enjoy more powerful bass sound (Sound function)

You can enjoy a powerful bass-boosted sound.

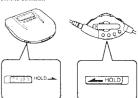


Press SOUND to select "MB (Mega Bass)" or "GRV (Groove)." "GRV" is more effective.

**Note**• If the sound is distorted when emphasizing bass, turn down the volume

### To lock the buttons

You can lock your player against any accidental operations You can still operate the player with the remote control.



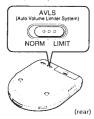
Slide HOLD in the direction of the arrow. When you press any button, " $Hol\ d$ " appears in the display and you cannot operate the player.

To unlock, slide HOLD back

Continue to the reverse side >

### To protect your hearing (AVLS)

The AVLS (Automatic Volu System) function keeps down the maximum volume to protect your ears.



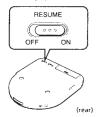
Set AVLS to LIMIT. The AVLS indication appears



If you use the SOUND function and the AVLS function at the same time, sound may be distorted. If this happens, turn down the

### To resume playing from the point

you stopped the CD (Resume Play) Normally, every time you stop and play, playing starts from the beginning of the CD. The resume play function, however, lets you listen to from the point at which you last turned off the player.



Set RESUME to ON

To cancel resume play, set RESUME to OFF

- Even if RESUME is set to ON, playing starts from the beginning when you open the lid.
  The resume point may be inaccurate by about 30 seconds.

### To turn off the beep

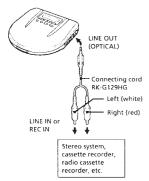
You can turn off the beep that sounds as you operate your player.

Disconnect the power source (AC power adaptor, rechargeable battery or alkaline batteries). While you press and hold down connect the power source again. To make the beep sound again, disconnect the power source, and then connect it without pressing

### Connecting to other stereo equipment

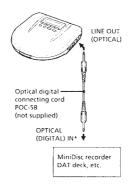
You can listen to the CD through other stereo equipment or record a CD on a cassette tope or a MiniDisc. Refer to the instruction manual of the other equipment for details. Before making connections, turn off each piece of equipment

### Using the connecting cord



When you use a connecting cord, the SOUND function will be disabled.

### Using the optical digital connecting cord



ff the OPTICAL (DIGITAL) IN jack is square shaped, use the POC-5AB optical digital necting cord instead.

### Notes on connecting to other stereo

- equipment
   Before you play the CD, turn down the volume of the connected equipment so as not to damage the connected speakers. The beep sound is not output from the UNE OUT (OPTICAL) jack.
- When you connect other equipment to the LINE OUT (OPTICAL) jack of this player, adjust the volume on the connected
- adjust the volume on the connected equipment.

   When you record a CD on a cassette tape using a tape recorder that has the blank search function, release the ESP function. If the ESP function is on, the blank search function does not seed as
- not work.

  "Use the AC power adaptor for recording. If you use the rechargeable batteries or dry batteries as a power source, batteries may become weak during recording.

### Recording with optical digital connection

Record a CD on a MiniDisc, DA4, etc., according to the following procedure.

1. Press ►II on the player to start play.

- 2 Press ►II again to pause.
  3 Press ►III again to select the track you want to
- Press (record) on the MiniDisc recorder,
- DAT recorder, etc.

  5 Press ► II on the player to release pause

- Connect the optical digital connecting cord
- Connect the optical digital connecting cord while the placer is in stop mode.
   If you record without pausing the player, som CD may have problem with recording the first track number correctly.
   The SOUND function works on the output from the Ω/REMOTE jack, but does not work on that from the LINE OUT (OPTICAL) jack.
   When you an output divided connecting cord
- When use an optical digital connecting cord, the ESP function will be disabled.

### Playing a CD in a car

You can use your player in a car by connecting it to the car cassette deck

You cannot use the car mount plate for this

player. When you use the player in a car, install it securely in a location which does not interfere your driving.

To connect your player to a car cassette deck, you need the following accessories:
• Car connecting pack CPA-9
• Car battery cord DCC-E245

- or,

   Car battery cord with car connecting pack DCC-E26CP

  Refer to the instruction manual of each

accessory for details

- Do not put the player on the dashboard
- Do not leave the player in a car parked under sunlight.

  • Use a Sony car connecting pack for reducing
- noise.

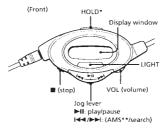
   Use only the car battery cord listed in the recommended accessories. If you use any other car battery cord, smoke, fire or malfunction may occur.

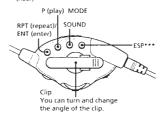
### Switched ignition function (when using the car battery cord)

With this feature, your player stops automatically when you turn off the engine of the car. (This function is not possible with some cars depending on the model).

### Using the supplied remote control

You can use the remote control as the wired





- When you are not using the remote control slide HOLD in the direction of the arrow to prevent any accidental operations.
   To unlock, slide HOLD back.
- \*\* Automatic Music Sensor \*\*\*Electronic Shock Protection

Use only the supplied remote control. You cannot operate this player with the remote control supplied with other models.

### ▶Power Sources

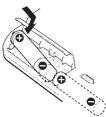
### Using rechargeable batteries

Charge the rechargeable batteries before using them for the first time. Use the NH-DM2AA or NC-DMAA rechargeable batteries for this player. You cannot use any other rechargeable batteries.

Open the lid of the battery compartment.

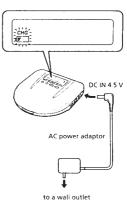


2 Insert two rechargeable batteries by matching the ⊕ and ⊖ to the diagram inside the battery compartment and close the lid.



3 Connect the AC power adaptor. The indication "CHG" lights up. Charge for about 4 hours.

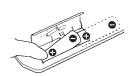
(If the battery has been already charged, "CHG" and @ flash.)



**4** When fully charged, "CHG" disappears. Disconnect the AC power adaptor.

### To take out the rechargeable

**batteries**Take out the batteries in the proper way as illustrated inside the lid or shown below



### When to charge the rechargeable batteries

When the rechargeable batteries become weak, "Lo batt" appears in the display.

If the "Lo batt" appears in the display, charge the rechargeable batteries, because the

batteries are used up. To keep the original battery capacity for a long time, recharge the batteries when the batteries are used up (discharged).

### When carrying the rechargeable

battery
Make sure to use the supplied battery carrying case.
If you carry the rechargeable battery with a

metal object, short circuit, smoke or fire may

- Charging time varies depending on how the
- Charging time varies depending on how the rechargeable battery is used.

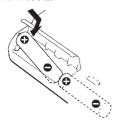
  If the battery is new or has not been used for a long time, it may not be charged completely until you charge and discharge it several times.

  If the battery life becomes shorter by about half, replace it with Sony NII-DMZAA or NC DMAA rechargeable battery. Do not use any other rechargeable battery. other rechargeable battery
- The supplied rechargeable batteries are only for this player. You cannot use them for other models.

### Using dry batteries

Insert the batteries properly in the same way as the rechargeable batteries.

- Disconnect the AC power adaptor and open the lid of the battery compartment
- 2 Insert two LR6 (size AA) alkaline batteries by matching the ⊕ and ⊖ to the diagram inside the battery compartment and close the lid.



Do not use manganese batteries for this player

### To take out the dry batteries

Take out the batteries properly in the same way as the rechargeable batteries.

### When to replace the dry batteries

When the battery becomes weak, ☐ indication appears in the display. If the batteries are used up, "Ło ˈbūtt" appears in the display. Replace all the batteries with new

### Notes

- Do not charge the dry batteries.
   Do not mix new batteries with old ones.
   Do not use different types of batteries together.
   When the batteries are not to be used for a long time, remove them.
- If the battery leakage occurs, wipe off any deposit in the battery compartment, and install new batteries.

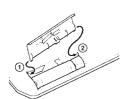
## Battery life (approx. hours) (EIAJ\*) Battery life varies depending on how the player is used.

When using	ESP f	unction
	off	on
Two NH-DM2AA (charged for about 4 hours**)	13	12
Two NC-DMAA (charged for about 4 hours**)	8	7
Two alkaline batteries LR6SG	23	21

'Measured value by the standard of FIAJ (Electronic Industries Association of Japan) (When you use the player on a flat and stable place; When you do not use the optical digital connecting cord) "Charging time varies depending on how the rechargeable battery is used.

### How to attach the battery

compartment lid
If the battery compartment lid is detached by
an accidental drop, excessive force, etc., attach
it as illustrated in the numbered order.



### ▶ Additional Information

### Precautions

### On safety

- Should any solid objects or liquid fall into the player, unplug it and have it checked by qualified personnel before operating it any further.

   Do not not now force.
- Do not put any foreign objects in the DC IN 4.5 V (external power input) jack.

On power sources
• When you are not using the player for a long time, disconnect all power sources from the

On the AC power adaptor

• Use only the supplied AC power adaptor. If your player is not supplied with it, use AC-1451 IGAC power adaptor. Do not use any other AC power adaptor.



 To unplug the AC power adaptor from the wall outlet, grasp the adaptor itself, do not pull its cord

### On dry and rechargeable batteries

This player is designed so that it cannot charge any other rechargeable batteries or dry batteries for safety reasons.

The supplied rechargeable batteries (NH-DM2AA) or optional rechargeable batteries (NC-DMAA)



Other rechargeable batteries or dry batteries



When you replace the rechargeable batteries with new ones, make sure to use the NH-DM2AA/ NC-DMAA rechargeable batteries.

- Do not throw the batteries into fire
- 10 not traw the batteries with coins or other metallic objects. If can generate heat if the positive and negative terminals of the battery are accidentally contacted by a metallic object.
   Do not mix rechargeable batteries with dry batteries.

- On the player

   Keep the lens on the player clean and do not touch it. If you do so, the lens may be damaged and the player will not operate
- damaged and the player will not operate properly.

  Do not put any heavy object on top of the player. The player and the CD may be damaged.

  Do not leave the player in a location near heat sources, or in a place subject to direct sindight, excessive dust or sand, moisture, rain, mechanical shock, unleveled surface, or in a car with its vicinous closed.
- mechanical shock, universed surface, or in a curifit his windows closed.

  If the player causes interference to the radio or television reception, turn off the player or move it away from the radio or television.

  Du not wrap the player in a cloth or blanket during use as it may cause malfunction or serious accidents.

### On headphones/earphones

Road safety
Do not use headphones/earphones while Do not use headphones/earphones while driving, cytong, or operating any motorized vehicle. It may create a traffic hazard and is illegal in some areas. It can also be potentially dangerous to play your headsets at high volume while walking, especially at pedestrian crossings. You should exercise extreme caution or discontinue use in potentially hazardous situations

### Preventing hearing damage

rrevening nearing canage Avoid using headphones/carphones at high volume. Hearing experts advise against continuous, loud and extended play. If you experience a ringing in your ears, reduce volume or discontinue use.

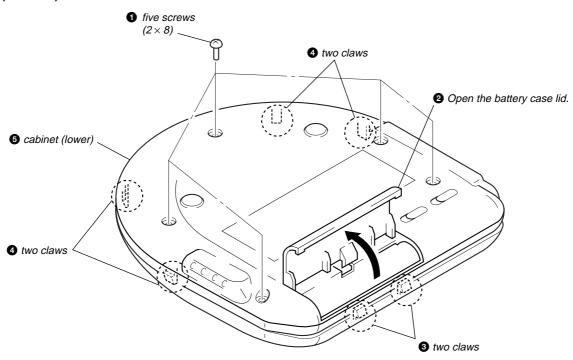
### Caring for others

Keep the volume at a moderate level. This will allow you to hear outside sounds and to be considerate to the people around you.

## SECTION 3 DISASSEMBLY

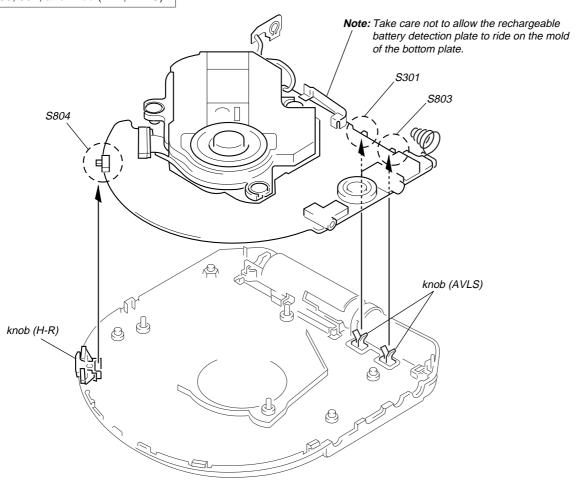
**Note:** Follow the disassembly procedure in the numerical order given.

### **CABINET (LOWER)**



### **INSTALLATION MAIN BOARD**

On installation MAIN board adjust the S301, 803, 804, and knob (H-R, AVLS).

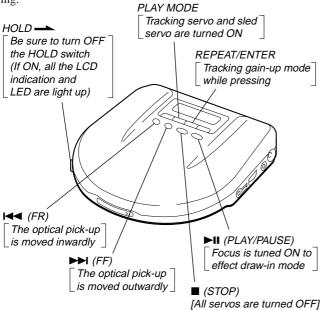


## SERVICE MODE

### Service Mode (Service program)

The equipment is provided with a service program built in the microcomputer, like conventional models.

Service program operation methods are described in the following.



Descriptions in [ ] indicate major operations in the service mode. For more informatrion, see Step 2.

Fig. 1 Layout of each key

### • Step 1 (Service mode setting methods)

- 1. Turn OFF the HOLD switch with external power supply disconnected. (power is not applied to the set)
- Solder across the TEST terminals (TAP802). (pin 
   (pin 
   (ESPSL/TEST) is grounded)
- 3. Connect an external power supply.

Thus, the set is switched to the service mode.

### • Step 2 (Operation in the service mode)

- Once the service mode is effected, the LCD displays 5 indications each of which is repeatedly displayed.
   However, the following operations can be activated even if LCD indication is effected.
- By pressing the ►► or ►
   key, the optical pick-up is movable inwardly or outwardly. However, if this is activated, tracking servo and sled servo are turned OFF, so it can be turned ON by pressing the PLAY MODE key if required.
- By pressing the REPEAT/ENTER key, the tracking gain-up mode becomes active.

- By pressing the ►II key, focus is turned ON from focus searching while entering CLV-S. (draw-in mode)
   Without disc, focus searching is repeated continuously.
- 5. By pressing the PLAY MODE key, tracking servo, sled servo and CLV-A (servo in PLAY) are turned ON.
- 6. When step 4 and 5 are performed, playing begins. No muting is ON in the service mode.
- 7. By pressing the key, all servos (focus, tracking and sled) are turned OFF. However, the disc motor revolves for a while by inertia.

### • Step 3 (Resetting of service mode)

- Be sure to disconnect the external power supply and remove the solder bridge at the TEST terminals connected before in setting.
- 2. The set thus becomes available for normal operation.

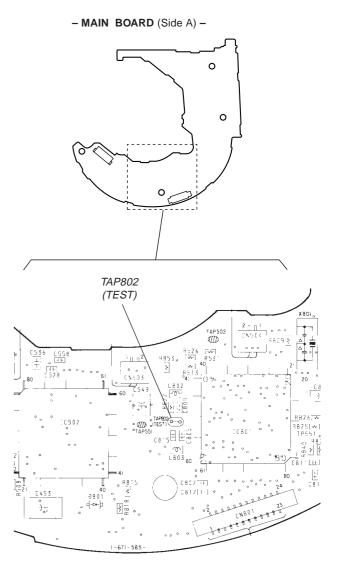


Fig. 2 Location of Test terminal

## SECTION 5 ELECTRICAL ADJUSTMENTS

### **Precautions for Adjustment**

 Before beginning adjustment, set the equipment to service mode.

After the completion of adjustment, be sure to reset the service mode.

For more information, see "Service Mode (service program)" on page 9.

- 2. Perform adjustments in the order given.
- 3. Use YEDS-18 disc (Part No.: 3-702-101-01) unless otherwise indicated.
- 4. Power supply voltage requirement: DC2.5 V in battery terminal

VOLUME knob : Minimum
RESUME switch : OFF
ESP switch : OFF
AVLS switch : NORMAL
HOLD switch : OFF

### **Before Beginning Adjustment**

Set the equipment to service mode (See page 9) and check the following. If there is an error, repair the equipment.

### · Checking of the sled motor

- 1. Open the upper panel.
- 2. Press the ►► and ► keys and check that the optical pickup can move smoothly without sluggishness or abnormal noise in innermost periphery → outermost periphery → innermost periphery

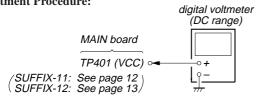
►► : The optical pick-up moves outwardly. : The optical pick-up moves inwardly.

### · Checking of focus searching

- 1. Open the upper panel.
- 2. Press the ►II key. (Focus searching operation is activated continuously)
- 3. Check the object lens of the optical pick-up for smooth up/down motion without sluggishness or abnormal noise.
- 4. Press the **■** key.

Check that focus searching operation is deactivated. If not, again press the ■ key slightly longer.

### VCC Adjustment Adjustment Procedure:



- 1. Set the equipment to service mode stop state. (See page 9)
- Connect the digital voltmeter to TP401 (VCC) on the MAIN board.
- 3. Adjust RV401 on the MAIN board so that the reading on digital voltmeter goes 2.53 V.

**Specifications:** 2.5 V to 2.55 V

4. After the completion of adjustment, reset service mode. (See page 9)

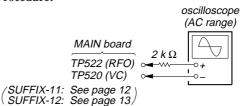
**Adjustment Location:** MAIN Board (SUFFIX-11: See page 12, SUFFIX-12: See page 13)

### **Focus bias Check**

### **Condition:**

• Hold the set in horizontal state.

### **Check Procedure:**



- 1. Set the equipment to service mode stop state. (See page 9)
- Connect the oscilloscope to the test point TP522 (RFO) on the MAIN board.
- Move the optical pick-up to the center by pressing the ►►I and I◄ keys.
- 4. Put the disc. (YEDS-18)
- 5. Press the ►II key.

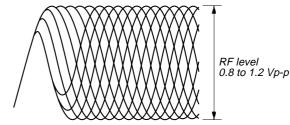
From focus searching, focus is turned ON while entering CLV drawing-in mode. Tracking and sled are turned OFF.

- 6. Press the PLAY MODE key. (Both tracking and sled are turned ON)
- Check the oscilloscope waveform is as shown below.
   A good eye pattern means that the diamond shape (◊) in the center of the waveform can be clearly distinguished.

### RF Signal Reference Waveform (Eye Pattern)

VOLT/DIV: 200 mV (With the 10:1 probe in use)

TIME/DIV: 500 ns



To watch the eye pattern, set the oscilloscope to AC range and increase the vertical sensitivity of the oscilloscope for easy watching.

- 8. Stop revolving of the disc motor by pressing the  $\blacksquare$  key.
- 9. After the completion of adjustment, reset service mode. (See page 9)

**Checking Location:** MAIN Board (SUFFIX-11: See page 12, SUFFIX-12: See page 13)

### Focus/Tracking Gain Adjustment

A servo analayzer is necessary in order to perform this adjustment exactly.

However, this gain has a margin, so even if it is slightly off, there is no problem. Therefore, do not perform this adjustment.

Focus/tracking gain determines the optical pick-up follow-up relative to mechanical noise and mechanical shock when the 2-axis device operates. However, as these reciprocate, the adjustment is at the point where both are satisfied.

- When gain is rased, the noise when 2-axis device operates in-
- When gain is lowered, it is more susceptible to mechanical shock and skipping occurs more easily.

This adjustment has to be performed upon replacing any of the following parts.

- Optical pick-up
- RV503 (Focus gain VR)
- RV502 (Tracking gain VR)

Normally, be sure not to move RV503 (focus gain VR) and RV502 (tracking gain VR).

### Adjustment procedure:

### - Focus Gain Adjustment -

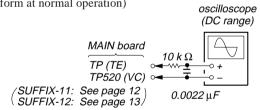
This adjustment is not performed.

If focus gain VR RV503 is turned, set to mechanical center. Adjustment Location: MAIN Board (SUFFIX-11: See page 12,

SUFFIX-12: See page 13)

### - Tracking Gain Adjustment -

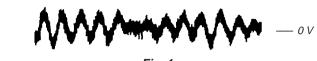
(perform at normal operation)



- 1. Place the optical pick-up level, horizontally. (If the optical pick-up is not level, the 2-axis device will be weighted and adjustment cannot be done)
- 2. Connect the oscilloscope to TP (TE) and TP520 (VC) on the MAIN board.
- 3. Set the disc (YEDS-18) and press the ► key.
- 4. Turn RV502 slightly clockwise (tracking gain drops) and obtain a waveform with a fundamental wave (waveform has large waves) as in Figure 1.
- 5. Turn RV502 slowly counterclockwise (tracking gain rises) until the fundamental wave disappears (no large waves) as in Fig-
- 6. Set RV502 to the position about 30° counterclockwise form the position obtained in step 5. If RV502 contact point is more than 90° counterclockwise from mechanical center, tracking gain is too high. In this case, readjust from step 4.
- 7. Press ▶ or ► key and observe the 100 track jump waveform. Check that no traverse waveform appears for both or **◄** directions. (See Figures 3 and 4)
- It is acceptable if the traverse waveform appears only now and then, but if it appears constantly, raise tracking gain slightly and check step 7 again.
- 8. Check that there is not abnormal amount of operation noise (white noise) from the 2-axis device. If there is, tracking gain is too high, readjust starting with step 4.

The waveforms are those measured with the oscilloscope set as

- VOLT/DIV: 500 mV
- TIME/DIV: 5 ms
- Waveform when tracking gain is lowered. Fundamental wave appears. (large waves)



• Waveform when fundamental wave disappears. (no large waves)

• Waveform with no traverse waveform during 100 track jump. (Brake application is smooth because of adjustment)

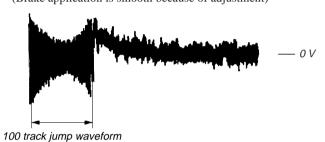
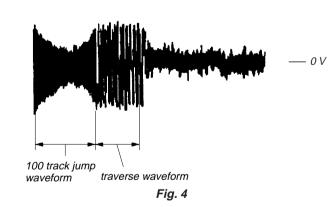


Fig. 3

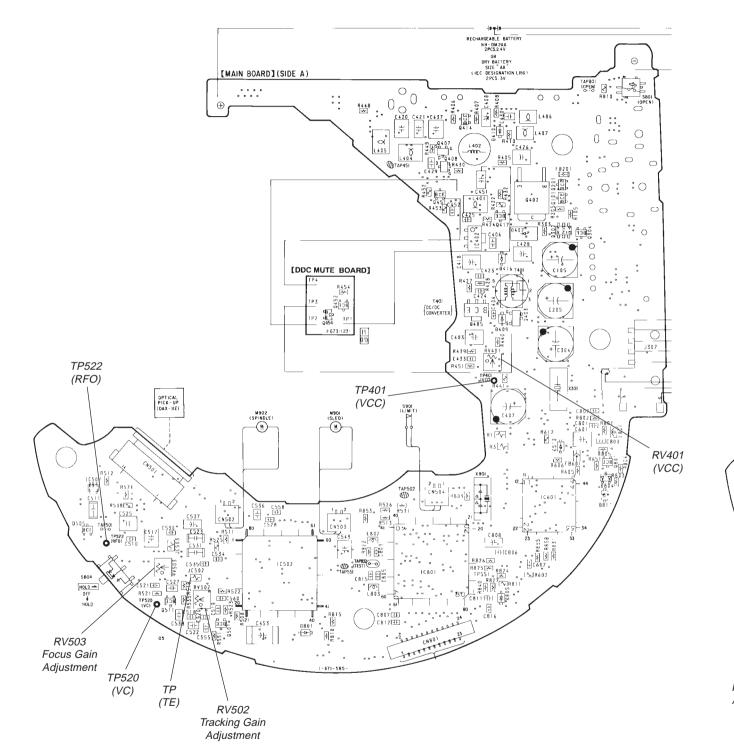
• Waveform with traverse waveform during 100 track jump. (Brake application is poor because of adjustment)



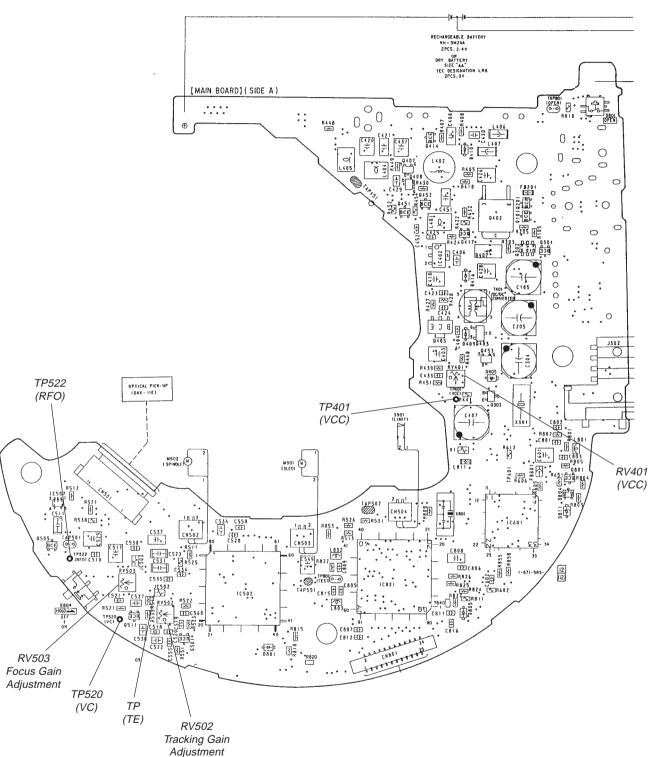
Adjustment Location: MAIN Board (SUFFIX-11: See page 12, SUFFIX-12: See page 13)

### **Adjustment and Checking Location:**

- MAIN BOARD (Side A) - (SUFFIX-11)



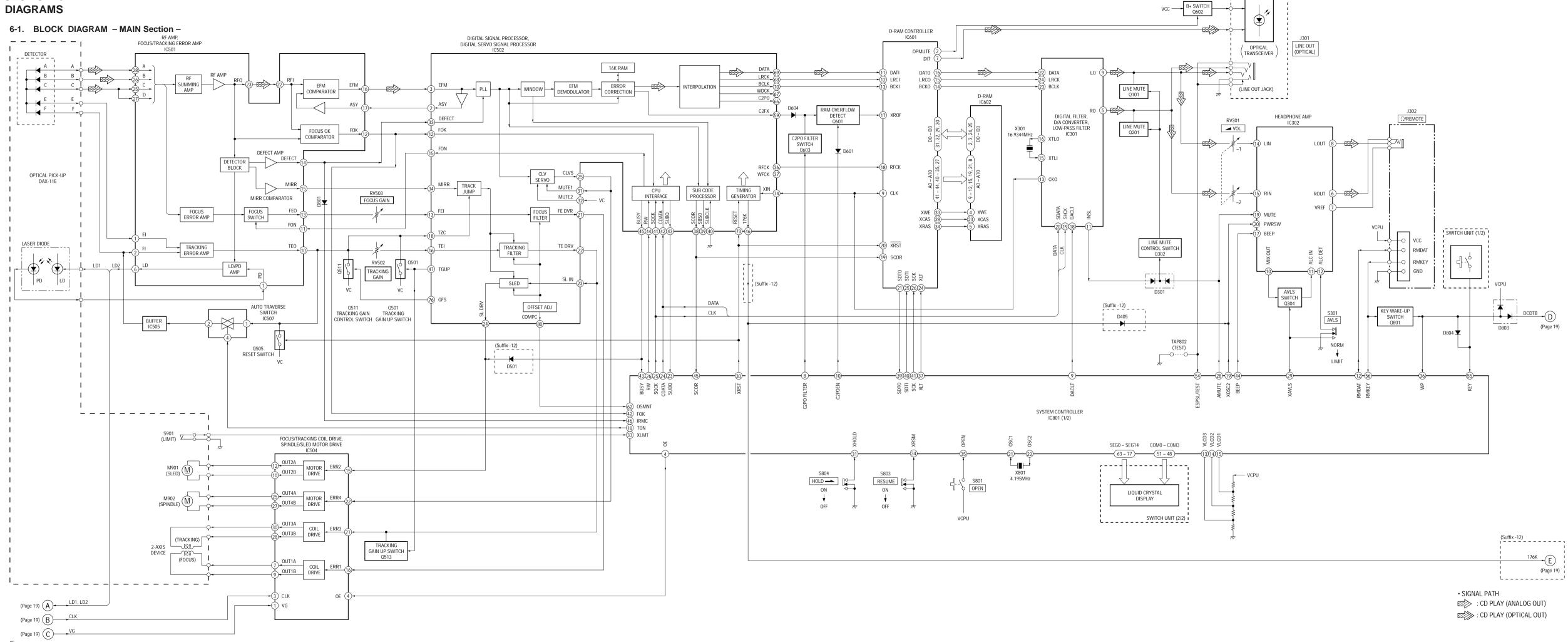
### - MAIN BOARD (Side A) - (SUFFIX-12)



**– 11 – –** 12 **– – 13 –** 

## **SECTION 6**

**–** 15 **–** 

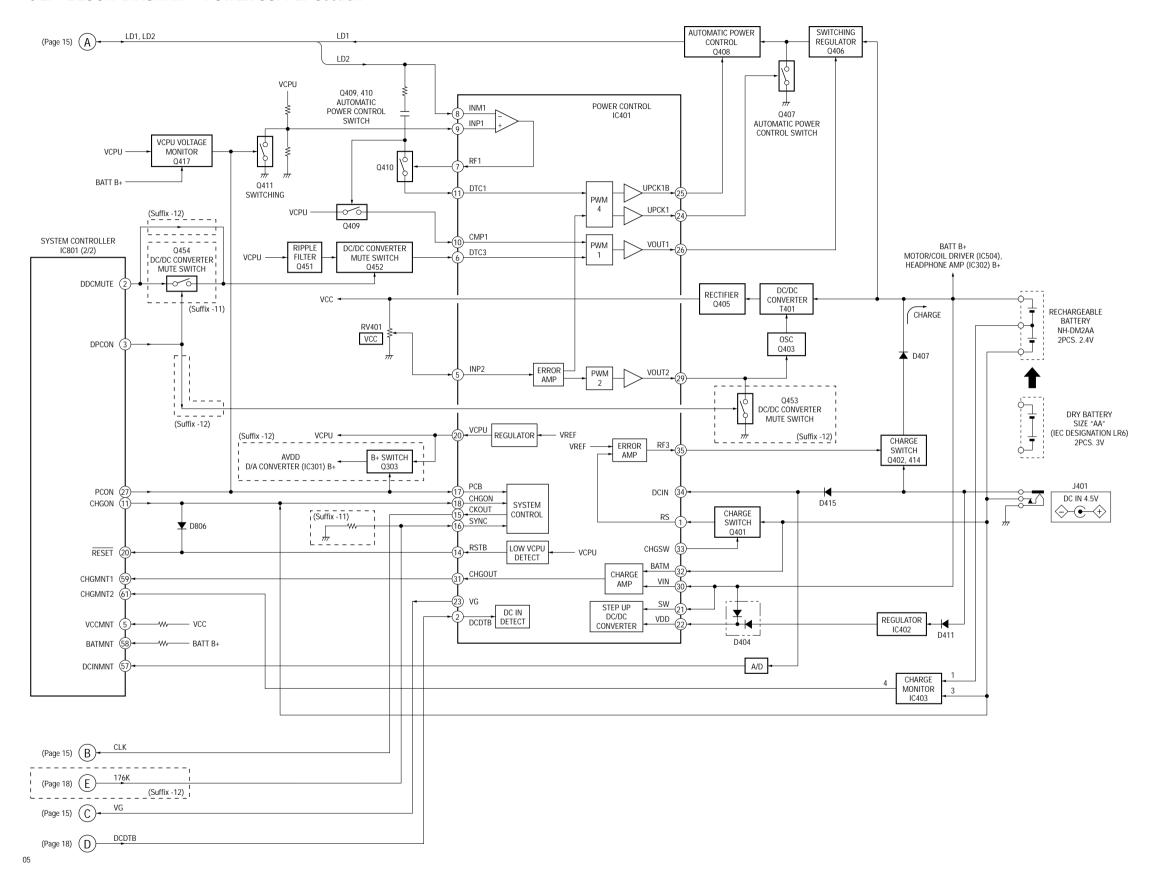


**– 17** –

**–** 16 **–** 

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### 6-2. BLOCK DIAGRAM - POWER SUPPLY Section -



### 6-3. IC PIN FUNCTION DESCRIPTION

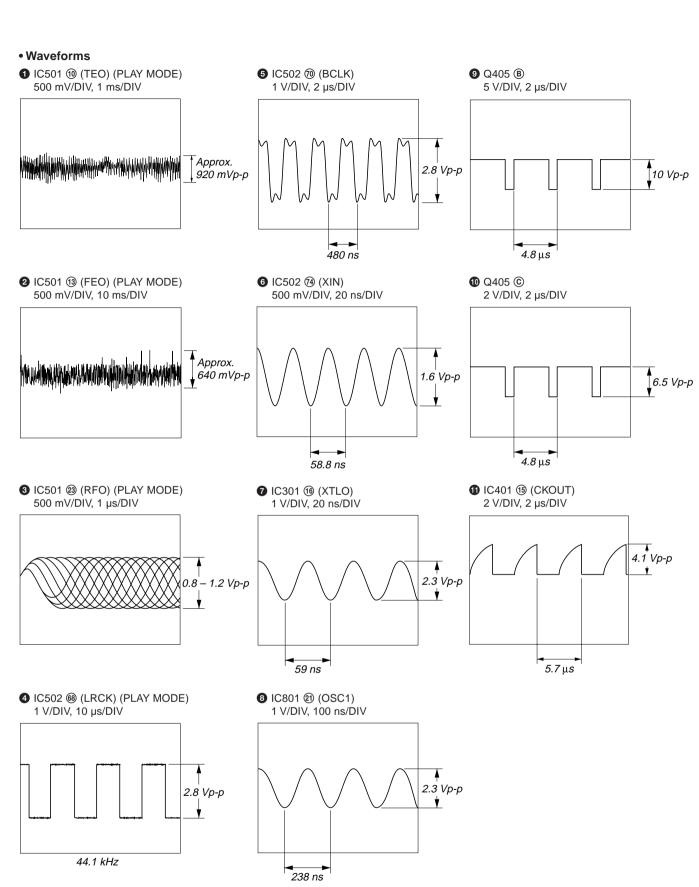
## • MAIN BOARD IC801 (SYSTEM CONTROLLER) MC68HC05L24-SC440482CFU (SUFFIX-11), MC68HC05L24-SC440488CFU (SUFFIX-12)

Pin No.	Pin Name	I/O	Description
1	VDD		Power supply terminal (+3V)
2	DDCMUTE	О	DC/DC converter muting control signal output terminal
3	DPCON	O	DC/DC converter on/off selection signal output terminal
4	OE	О	Output enable signal output to the MPC17A51VMEL (IC504) "L" active
5	VCCMNT	I	Main DC/DC converter voltage (+2.75V) monitor input (A/D input)
6	MDL SL	I	Destination setting terminal Fixed at "H" in this set
7	LIGHT	O	Back light control signal output to the liquid crystal display on the switch unit "H": back light on Not used (open)
8	C2PO FILTER	О	C2PO (error condition monitor) filter on/off control signal output terminal
9	DACLT	О	Serial data latch pulse signal output to the D/A converter (IC301)
10	C2POEN	О	C2PO (error condition monitor) signal control output terminal "L": stop mode, "H": searching
11	CHGON	О	Charging on output to the MPC18A26VMEL (IC401) "L": charge on
12	RMDAT	I/O	Communication data in/out for the liquid crystal display with remote commander
13	VLCD3	О	
14	VLCD2	О	Power supply output for the liquid crystal display bias
15	VLCD1	O	
16	VSS		Ground terminal
17	VPP		Power supply terminal (0V)
18	TON	О	Traverse on/off control signal output to the auto traverse circuit
19	XOSC2	О	Standby control signal output to the headphone amplifier (IC302)
20	RESET	I	System reset signal input from the MPC18A26VMEL (IC401) "L": reset For several hundreds msec. after the power supply rises, "L" is input, then it changes to "H"
21	OSC1	I	Main system clock input terminal (4.195 MHz)
22	OSC2	О	Main system clock output terminal (4.195 MHz)
23	SUBQ	I	Sub-code Q data signal input from the BU9326KS (IC502)
24	CDATA	О	Serial data output to the D/A converter (IC301) and BU9326KS (IC502)
25	SQCK	О	Sub-code Q data reading clock signal output to the D/A converter (IC301) and BU9326KS (IC502)
26	RW	0	Data read/write selection signal output to the BU9326KS (IC502) "L": reading mode, "H": writing mode
27	PCON	О	Power on/off control signal output to the MPC18A26VMEL (IC401) "L": power on, "H": power off
28	AMUTE	О	Analog muting on/off control signal output terminal "H": muting on
29	XAVLS	I	AVLS (Automatic Volume Limiter System) switch (S301) input terminal "L": limit mode, "H": normal mode
30	XRST	0	System reset signal output to the BU9326KS (IC502) and D-RAM controller (IC601) "L": reset
31	XHOLD	I	HOLD switch (S804) input terminal "L": hold on, "H": hold off
32	XRCHG	I	Rechargeable battery pack detection switch input terminal "L": rechargeable battery pack in Not used (open)
33	XLMT	I	Sled limit-in detection switch (S901) input terminal The optical pick-up is inner position when "L"
34	XRSM	I	RESUME switch (S803) input terminal "L": resume on, "H": resume off
54			

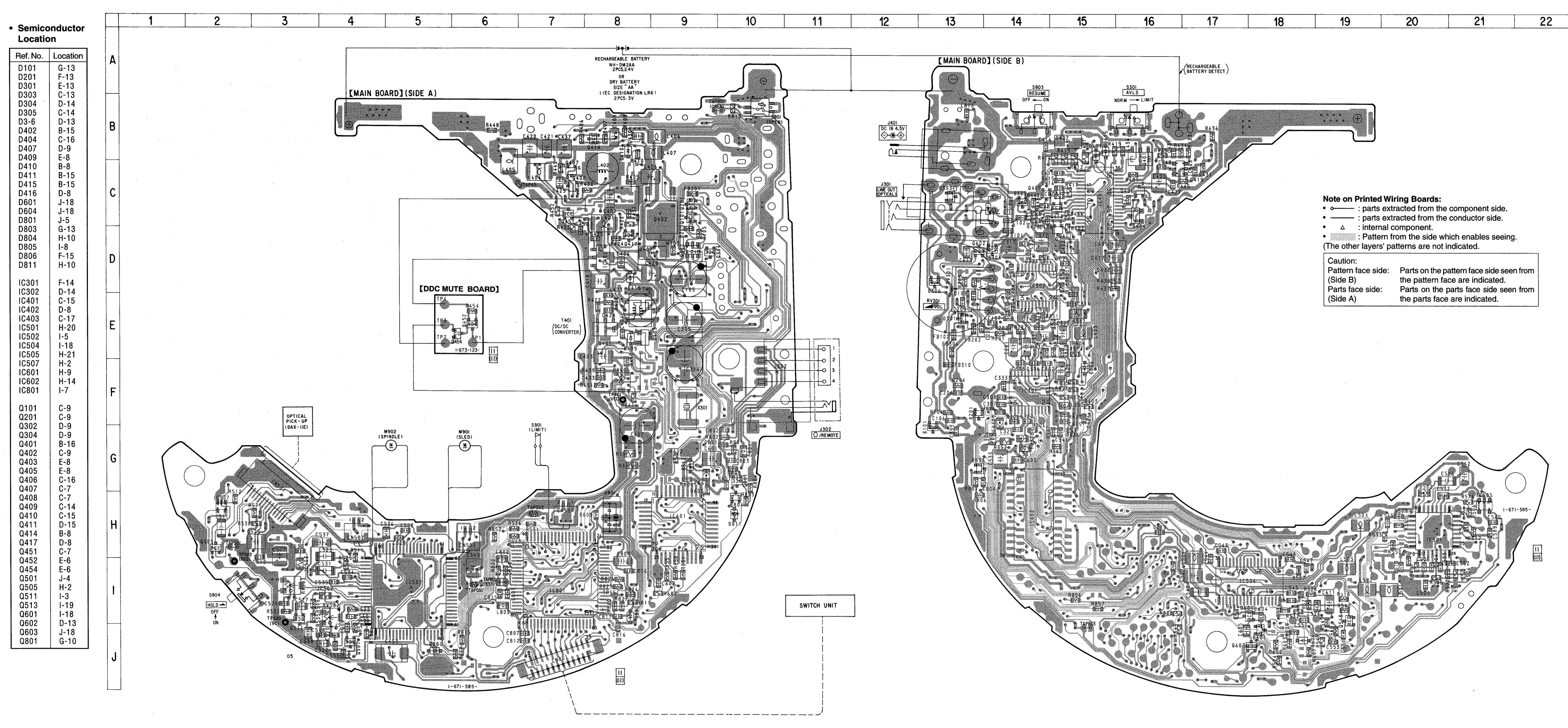
Pin No. Pin Name I/O Description  36 WP I Wake-up control signal input terminal The stop status is reset with the falling edge of input signal  37 XLT O Serial data latch pulse signal output to the D-RAM controller (IC601) (for ESP)  38 XSOE O Serial data output enable signal output terminal (for ESP) Not used (pull up)  39 SDTO I Serial data input from the D-RAM controller (IC601) (for ESP)  40 SDTI O Serial data output to the D-RAM controller (IC601) (for ESP)  41 SCK O Serial data transfer clock signal output to the D-RAM controller (IC601) (for ESP)  42 FOK I Focus OK signal input from the RF amplifier (IC501) "L": NG, "H": OK  43 BUSY I Busy signal input from the BU9326KS (IC502) "L": track jump mode, "H": served BEEP O Beep sound output to the headphone amplifier (IC302)  45 SCOR I Sub-code sync (S0+S1) detection signal input from the BU9326KS (IC502)  46 IRMC I Attenuate display selection signal input from the RF amplifier (IC501)  47 VDD — Power supply terminal (+3V)  48 to 51 COM3 to COM0 O Common drive signal output to the liquid crystal display on the switch unit  52 VREFH I Reference voltage input terminal (+3V) (for A/D converter)	
The stop status is reset with the falling edge of input signal  XLT O Serial data latch pulse signal output to the D-RAM controller (IC601) (for ESP)  XSOE O Serial data output enable signal output terminal (for ESP) Not used (pull up)  SDTO I Serial data input from the D-RAM controller (IC601) (for ESP)  40 SDTI O Serial data output to the D-RAM controller (IC601) (for ESP)  41 SCK O Serial data transfer clock signal output to the D-RAM controller (IC601) (for ESP)  42 FOK I Focus OK signal input from the RF amplifier (IC501) "L": NG, "H": OK  43 BUSY I Busy signal input from the BU9326KS (IC502) "L": track jump mode, "H": served BEEP O Beep sound output to the headphone amplifier (IC302)  45 SCOR I Sub-code sync (S0+S1) detection signal input from the BU9326KS (IC502)  46 IRMC I Attenuate display selection signal input from the RF amplifier (IC501)  47 VDD — Power supply terminal (+3V)  48 to 51 COM3 to COM0 O Common drive signal output to the liquid crystal display on the switch unit	
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43 BUSY I Busy signal input from the BU9326KS (IC502) "L": track jump mode, "H": served 44 BEEP O Beep sound output to the headphone amplifier (IC302) 45 SCOR I Sub-code sync (S0+S1) detection signal input from the BU9326KS (IC502) 46 IRMC I Attenuate display selection signal input from the RF amplifier (IC501) 47 VDD — Power supply terminal (+3V) 48 to 51 COM3 to COM0 O Common drive signal output to the liquid crystal display on the switch unit	
44 BEEP O Beep sound output to the headphone amplifier (IC302)  45 SCOR I Sub-code sync (S0+S1) detection signal input from the BU9326KS (IC502)  46 IRMC I Attenuate display selection signal input from the RF amplifier (IC501)  47 VDD — Power supply terminal (+3V)  48 to 51 COM3 to COM0 O Common drive signal output to the liquid crystal display on the switch unit	
45 SCOR I Sub-code sync (S0+S1) detection signal input from the BU9326KS (IC502)  46 IRMC I Attenuate display selection signal input from the RF amplifier (IC501)  47 VDD — Power supply terminal (+3V)  48 to 51 COM3 to COM0 O Common drive signal output to the liquid crystal display on the switch unit	loop on
46 IRMC I Attenuate display selection signal input from the RF amplifier (IC501)  47 VDD — Power supply terminal (+3V)  48 to 51 COM3 to COM0 O Common drive signal output to the liquid crystal display on the switch unit	
47 VDD — Power supply terminal (+3V)  48 to 51 COM3 to COM0 O Common drive signal output to the liquid crystal display on the switch unit	
48 to 51 COM3 to COM0 O Common drive signal output to the liquid crystal display on the switch unit	
52 VREFH I Reference voltage input terminal (+3V) (for A/D converter)	
53 VREFL I Reference voltage input terminal (0V) (for A/D converter)	
54 ESPSL/TEST I Service mode setting terminal "L": service mode, Normally: fixed at "H"	
55 KEY I Key input from the switch unit (A/D input)	
56 RMKEY I Key input from the headphone with remote commander (A/D input)	
57 DCINMNT I DC in voltage detection input terminal (A/D input) Also used for DC IN detection	n
58 BATMNT I Battery voltage detection input terminal Also used for rechargeable battery/dry battery detection	
59 CHGMNT1 I Battery charging voltage detection input from the MPC18A26VMEL (IC401)	
60 VSS — Ground terminal	
61 CHGMNT2 I Battery voltage detection input terminal (A/D input) Also used for rechargeable battery/dry battery detection	
62 OSMNT I DSP offset voltage adjustment voltage monitor input from the BU9326KS (IC502)	
63 to 77 SEG0 to SEG14 O Segment drive signal output to the liquid crystal display on the switch unit	
78, 79 SEG15, SEG16 O Segment drive signal output terminal Not used (open)	
80 X9326 I/O Error correction "L": quadruple correction, "H": double correction Suffix -11: fixed at "H", Suffix -12: fixed at "L"	

### D-E707/E775

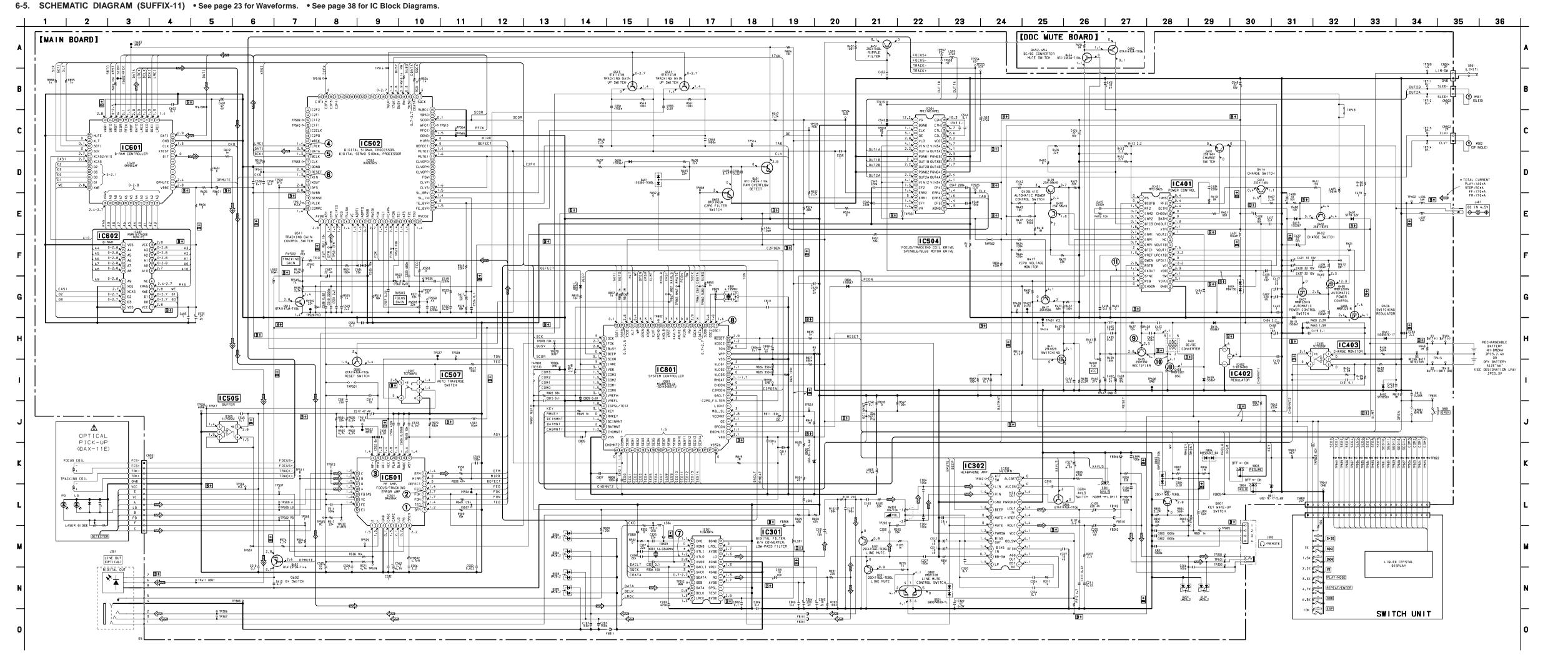


## 6-4. PRINTED WIRING BOARDS (SUFFIX-11)



**- 25 -**

**- 24 -**



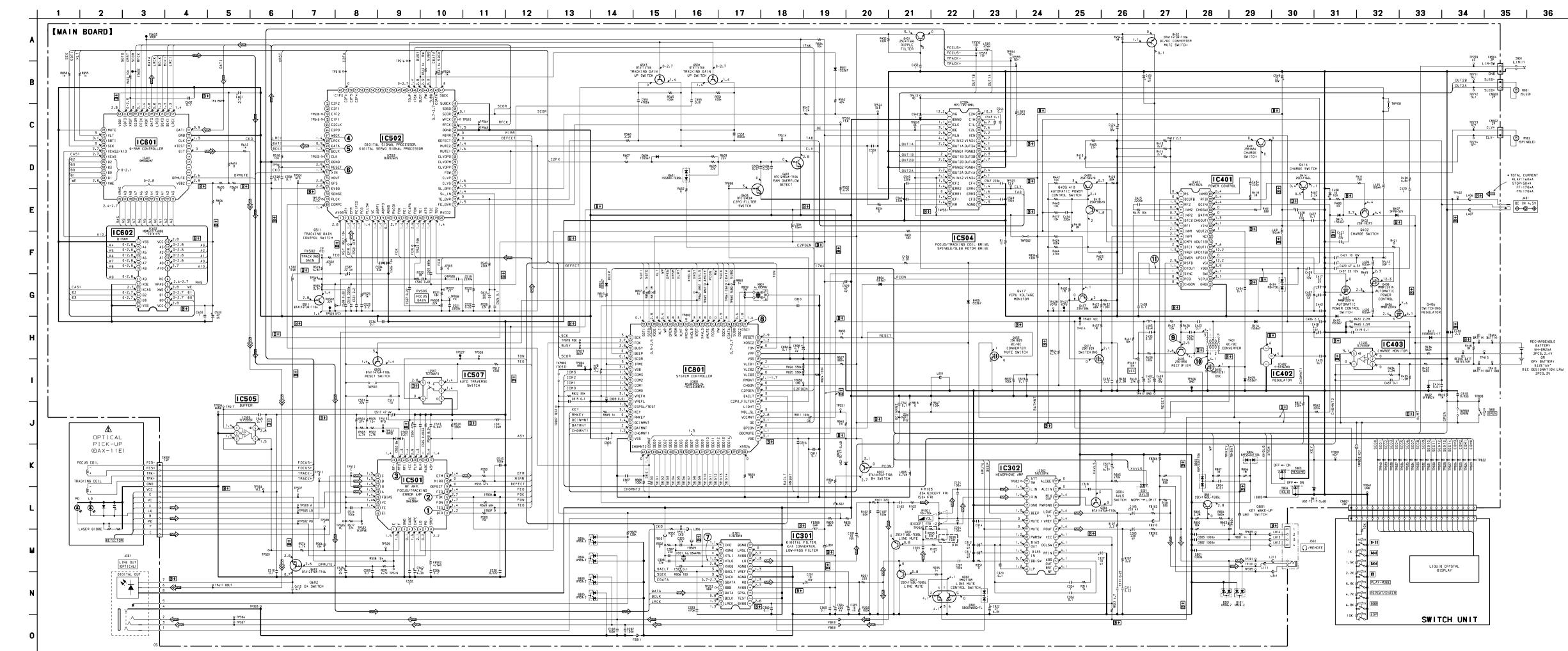
Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and  $^{1}/_{4}$  W or less unless otherwise specified.
- \( \triangle \) : internal component.

**Note:** The components identified by mark  $\triangle$  or dotted line with mark  $\triangle$  are critical for safety. Replace only with part number specified.

- B+ : B+ Line.: adjustment for repair.
- Power voltage is dc 4.5 V and fed with regulated dc power supply from external power voltage jack.
- Voltages and waveforms are dc with respect to ground under conditions in service mode. no mark : CD PI AY
- \* : Impossible to measure
- Voltages are taken with a VOM (Input impedance 10  $M\Omega$ ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
- Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.

6-6. SCHEMATIC DIAGRAM (SUFFIX-12) • See page 23 for Waveforms. • See page 38 for IC Block Diagrams.



**–** 33 **–** 

Note on Schematic Diagram:

• \( \triangle \) : internal component.

B+ : B+ Line.: adjustment for repair.

and tantalums.

specified.

cal for safety.

number specified.

no mark: CD PLAY

tion tolerances.

tion tolerances.

Signal path.

Abbreviation

FR : French model

• All capacitors are in μF unless otherwise noted. pF: μμF

• All resistors are in  $\Omega$  and  $^{1}/_{4}$  W or less unless otherwise

The components identi- Les composants identifiés par

fied by mark △ or dotted une marque △ sont critiques

Replace only with part piéce portant le numéro

Power voltage is dc 4.5 V and fed with regulated dc power

Voltages and waveforms are dc with respect to ground

• Voltages are taken with a VOM (Input impedance 10 M $\Omega$ ).

Voltage variations may be noted due to normal produc-

Voltage variations may be noted due to normal produc-

spécifié.

Ne les remplacer que par une

**–** 31 **–** 

supply from external power voltage jack.

• Waveforms are taken with a oscilloscope.

Circled numbers refer to waveforms.

⇒ : CD PLAY (ANALOG OUT)

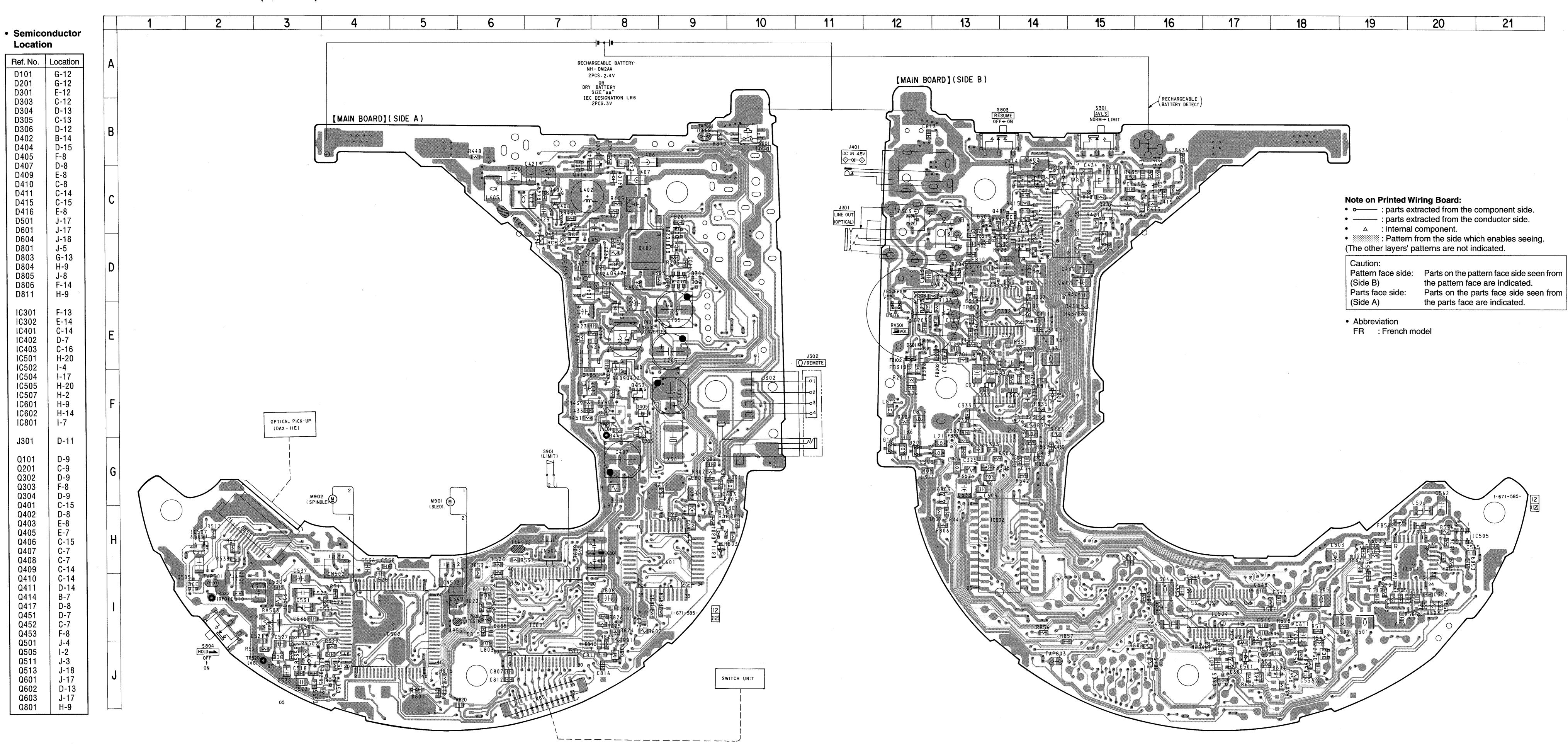
: CD PLAY (OPTICAL OUT)

under conditions in service mode.

\* : Impossible to measure

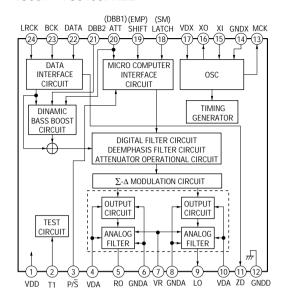
50 WV or less are not indicated except for electrolytics

## 6-7. PRINTED WIRING BOARD (SUFFIX-12)

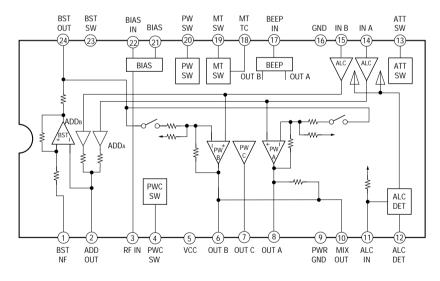


### • IC Block Diagrams

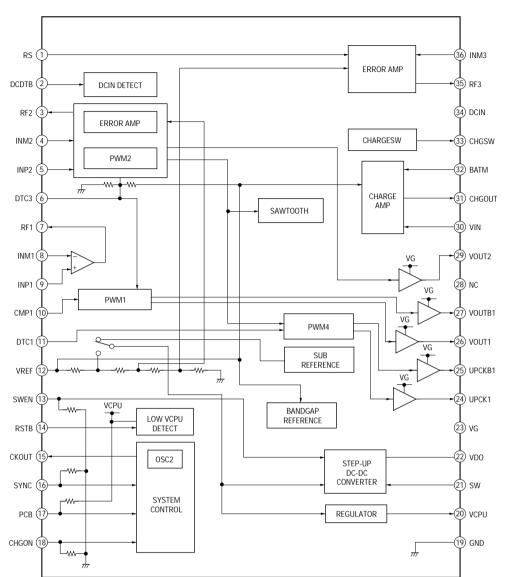
### IC301 TC9438FNEL



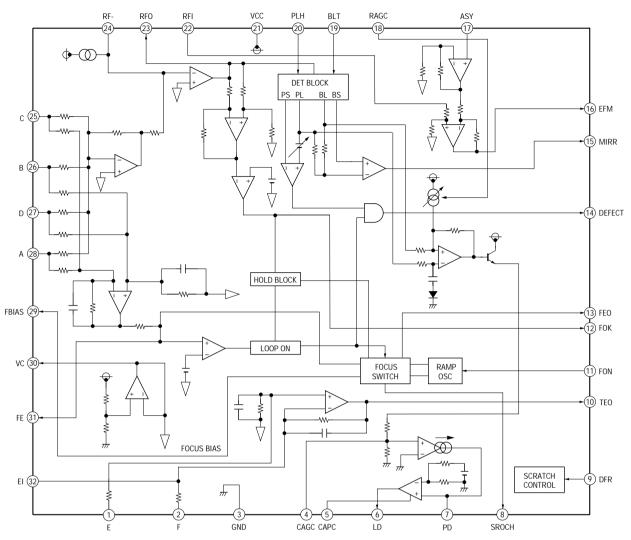
### IC302 TA2120FN (EL)



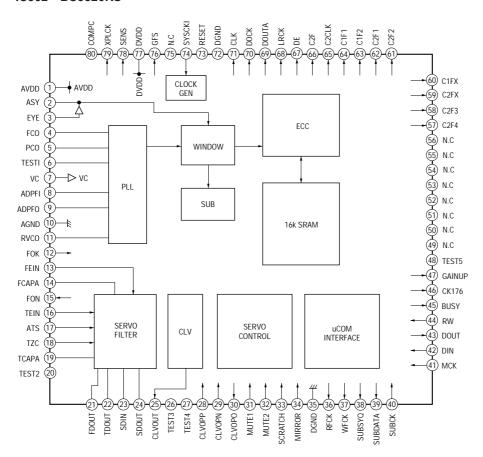
### IC401 MPC18A26VMEL



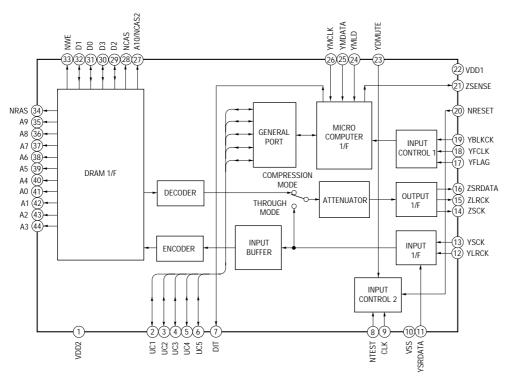
### IC501 BA6386K



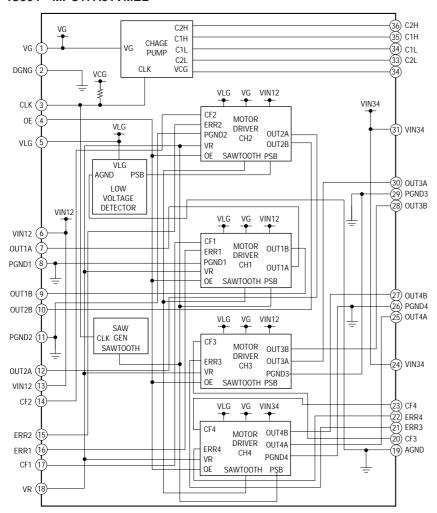
### IC502 BU9326KS



### IC601 SM5902AF



### IC504 MPC17A51VMEL



### **SECTION 7 EXPLODED VIEWS**

### NOTE:

- · -XX and -X mean standardized parts, so they may have some difference from the original
- Color Indication of Appearance Parts Example:

KNOB, BALANCE (WHITE) . . . (RED)

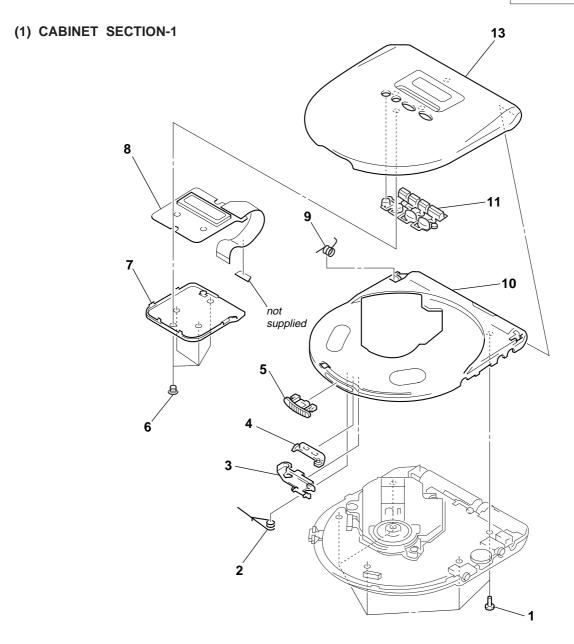
Parts Color Cabinet's Color

- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- · The mechanical parts with no reference number in the exploded views are not supplied.
- Accessories and packing materials are given in the last of the electrical parts list.

The components identified by mark  $\triangle$  or dotted line with mark  $\triangle$  are critical for safety. Replace only with part number specified.

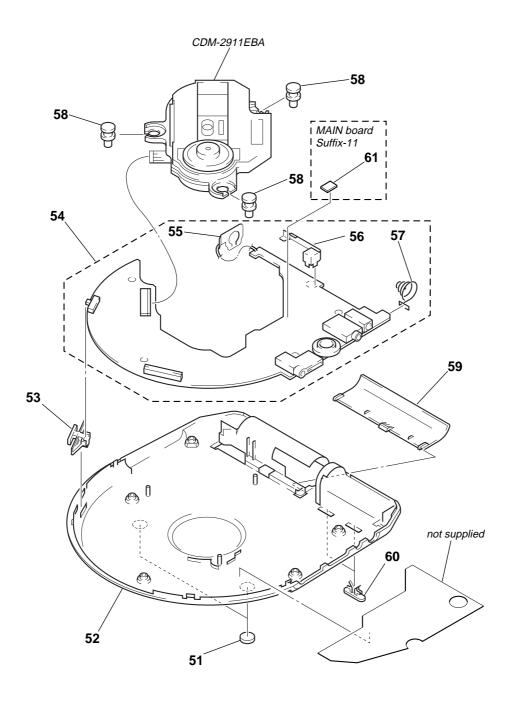
Les composants identifiés par une marque A sont critiquens pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.



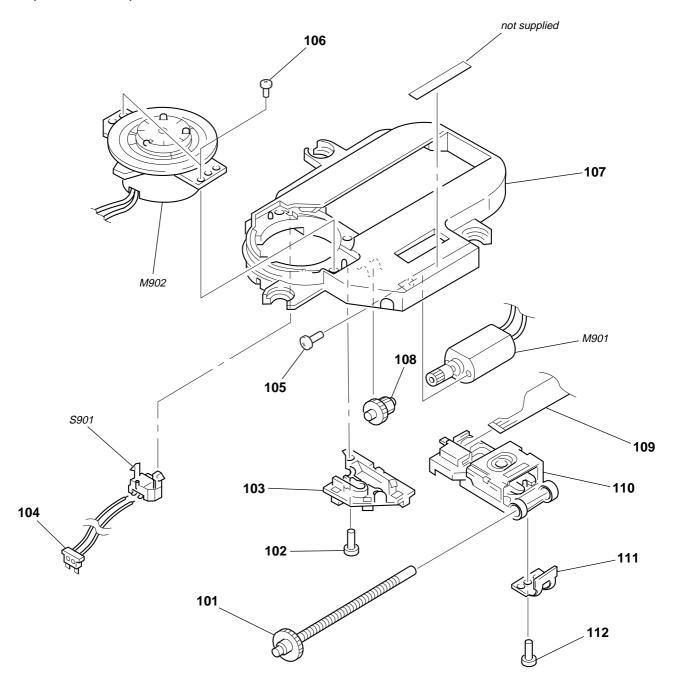
Ref. No.	Part No.	Description	<u>Remark</u>	Ref. No.	Part No.	Description	<u>Remark</u>
1	4-982-491-01	SCREW (2X8), TAPPING		10	X-4951-098-1	CABINET (UPPER) SUB ASSY	
2	4-993-128-01	SPRING (OPEN)				(WARM GRAY) (	SILVER, WHITE)
3	4-993-125-01	BRACKET (LOCK)		10	X-4950-453-1	CABINET (UPPER) SUB ASSY	
4	4-993-127-01	CLAW, LOCK				(BI	_UE) (BLUE)
5	4-993-126-01	KNOB (OPEN)		11	4-211-638-11	BUTTON (OPR)	
				13	X-4950-441-1	LID SUB ASSY, UPPER (SILVER	R) (D-E707)
6	3-375-114-31	SCREW		13	X-4950-469-1	LID SUB ASSY, UPPER (WHITE	) (D-E707)
7	4-211-639-01	COVER, LID (GRAY) (BLUE)					
7	4-211-639-11	COVER, LID (WHITE) (SILVER, W	HITE)	13	X-4950-470-1	LID SUB ASSY, UPPER (BLUE)	(D-E707)
8	1-475-998-11	SWITCH UNIT		13	X-4950-440-1	LID SUB ASSY, UPPER (SILVER	R) (D-E775)
9	4-993-135-01	SPRING (FULL OPEN)		13	X-4950-473-1	LID SUB ASSY, UPPER (BLUE)	(D-E775)

## (2) CABINET SECTION-2



Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>	Ref. No.	Part No.	Description	<u>Remark</u>
51	4-966-278-01	FOOT, RUBBER		56	4-993-134-01	PLATE, CHARGE DETECTION	
52	4-993-129-11	CABINET (LOWER)		57	4-993-133-21	SPRING (-), BATTERY TERMINAL	
		(WARM GRAY) (SILVER	R, WHITE)	58	4-993-138-01	INSULATOR	
52	4-993-129-21	CABINET (LOWER) (BLUE) (BLUE)	)	59	4-993-130-11	LID, BATTERY CASE	
53	4-993-131-11	KNOB (HOLD)				(WARM GRAY) (SILVE	R, WHITE)
		(WARM GRAY) (SILVER	R, WHITE)	59	4-993-130-21	LID, BATTERY CASE (BLUE) (BL	UE)
53	4-993-131-21	KNOB (HOLD) (BLUE) (BLUE)		60	4-984-751-31	KNOB (AVLS)	
						(WARM GRAY) (SILVE	R, WHITE)
54	A-3021-145-A	MAIN BOARD, COMPLETE (EXCEPT FI	rench)				
54	A-3323-087-A	MAIN BOARD, COMPLETE (French)		60	4-984-751-41	KNOB (AVLS) (BLUE) (BLUE)	
55	4-993-132-01	TERMINAL BOARD (+), BATTERY		* 61	1-673-123-11	DDC MUTE BOARD (MAIN board suf	fix-11)

## (3) MECHANISM DECK SECTION (CDM-2911EBA)



The components identified by mark  $\triangle$  or dotted line with mark  $\triangle$  are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque  $\triangle$  sont critiques pour la sécurité. Ne les remplacer que par une piéce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	A-3303-970-A	SCREW ASSY, FEED		109	1-667-512-11	SLIDE FLEXIBLE BOARD	
102	3-318-203-11	SCREW (B1.7), TAPPING		<b>110 110</b>	X-4950-476-1	OPTICAL PICK-UP (DAX-11E)	
103	4-972-163-04	SPRING, SLED		111	4-972-165-01	RACK	
104	1-783-093-11	LEAD (WITH CONNECTOR)		112	4-973-631-01	SCREW	
105	7-627-850-17	SCREW, PRECISION +P 1.4X2.5		M901	A-3311-902-A	MOTOR ASSY, SLED	
106	3-719-401-11	SCREW (B1.7), TAPPING		M902	A-3320-642-A	MOTOR ASSY, TURN TABLE (SPINDL	E)
* 107	4-984-320-01	CHASSIS		S901	1-571-099-21	SWITCH (1 KEY) (LIMIT)	
108	4-974-003-01	GEAR (B)					

### **DDC MUTE**

### **MAIN**

### **SECTION 8 ELECTRICAL PARTS LIST**

### NOTE:

- · Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS

All resistors are in ohms. METAL: Metal-film resistor.

METAL OXIDE: Metal oxide-film resistor.

F: nonflammable

Abbreviation

AUS: Australian model : French model CH: Chinese model G : German model HK : Hong Kong model CND: Canadian model EE : East European model JEW: Tourist model

E13 : 220 – 230V AC area in E model E33 : 100 – 240V AC area in E model · Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

SEMICONDUCTORS

In each case, u:  $\mu$ , for example:  $uPA.\ .\ : \mu PA.\ .$ 

 $\begin{array}{ll} uA. & : \mu A. \, . \\ uPB. & : \mu PB. \, . \end{array}$  $uPC..: \mu PC..$  $uPD..: \mu PD..$ 

 CAPACITORS uF: μF

COILS uH: μH ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiquens pour la

Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			<u>Remark</u>	Ref. No.	Part No.	Description			<u>Remark</u>
*	1-673-123-11	DDC MUTE BOAR	D (MAIN F	ROARD	SUFFIX-11)	C306	1-164-156-11	CERAMIC CHIP	0.1uF		25V
	1 070 120 11	******	`	,0,1110	301111/	0000	1 101 100 11	OLIVIIVII O OIIII	0.101	(	SUFFIX-11)
						C307	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
		< TRANSISTOR >				C308		CERAMIC CHIP	22PF	5%	50V
		(110111010101017)				C311		TANTALUM CHIP		20%	4V
0452	8-729-028-74	TRANSISTOR DTA	114TUA-7	Г106		C312		TANTALUM CHIP		20%	4V
Q454		TRANSISTOR DTO				00.2	20			2070	
						C314	1-115-156-11	CERAMIC CHIP	1uF		10V
		< RESISTOR>				C317		TANTALUM CHIP	22uF	20%	6.3V
R454	1-216-857-11		1M	5%	1/16W	C318		CERAMIC CHIP	1uF		10V
*******		******			******	C320		CERAMIC CHIP	0.1uF		25V
						C322		TANTALUM CHIP		20%	6.3V
	A-3021-145-A	MAIN BOARD, CO	MPLETE (	EXCEPT	FR)						
		MAIN BOARD, CO	•		,	C323	1-164-156-11	CERAMIC CHIP	0.1uF		25V
		******	,	,		C324		CERAMIC CHIP	1uF		10V
						C325		CERAMIC CHIP	22PF	5%	50V
	4-993-132-01	TERMINAL BOAR	D (+). BAT	TERY		C326		CERAMIC CHIP	0.1uF	10%	16V
		SPRING (-), BATT	. , .		SUFFIX-11)	C327	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
		SPRING (-), BATT		,	,						
		PLATE, CHARGE I			, , , , , , , , , , , , , , , , , , , ,	C333	1-164-362-11	CERAMIC CHIP	470PF	5%	50V
		,				C399		CERAMIC CHIP	100PF	5%	50V
		< CAPACITOR/RE	SISTOR >							(	SUFFIX-11)
						C402	1-104-908-11	TANTALUM CHIP	47uF	20%	4V
C101	1-104-851-11	TANTALUM CHIP	10uF	20%	10V	C403	1-113-682-11	TANTALUM CHIP	33uF	20%	10V
C102	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C404	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C103	1-115-156-11	CERAMIC CHIP	1uF		10V						
C104	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C406	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C105	1-113-690-11	ELECT CHIP	220uF	20%	4V	C407	1-113-690-11	ELECT CHIP	220uF	20%	4V
						C408	1-104-851-11	TANTALUM CHIP	10uF	20%	10V
C106	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C414	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
					(SUFFIX-11)	C415	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C107	1-162-927-11	CERAMIC CHIP	100PF	5%	50V						
C111	1-165-128-11	CERAMIC CHIP	0.22uF		16V	C416	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C201	1-104-851-11	TANTALUM CHIP	10uF	20%	10V	C417	1-104-847-11	TANTALUM CHIP	22uF	20%	4V
C202	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C418	1-135-155-21	TANTALUM CHIP	4.7uF	10%	16V
						C419	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C203	1-115-156-11	CERAMIC CHIP	1uF		10V	C420	1-110-569-11	TANTALUM CHIP	47uF	20%	6.3V
C204	1-162-927-11	CERAMIC CHIP	100PF	5%	50V					(	SUFFIX-12)
C205	1-113-690-11	ELECT CHIP	220uF	20%	4V						
C206	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C420	1-113-682-11	TANTALUM CHIP	33uF	20%	10V
				(	(SUFFIX-11)					(	SUFFIX-11)
C207	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C421	1-104-851-11	TANTALUM CHIP	10uF	20%	10V
						C422	1-104-852-11	TANTALUM CHIP	22uF	20%	10V
C211	1-165-128-11	CERAMIC CHIP	0.22uF		16V	C423	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C302	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C424	1-164-816-11	CERAMIC CHIP	220PF	2%	50V
C303	1-164-156-11	CERAMIC CHIP	0.1uF		25V						
C304	1-113-690-11	ELECT CHIP	220uF	20%	4V	C425	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C305	1-135-201-11	TANTALUM CHIP	10uF	20%	4V	C426	1-104-852-11	TANTALUM CHIP	22uF	20%	10V
						C427	1-164-156-11	CERAMIC CHIP	0.1uF		25V

Ref. No.	Part No.	<u>Description</u>			<u>Remark</u>	Ref. No.	Part No.	<u>Description</u>			Remark
C428	1-113-682-11	TANTALUM CHIP	33uF	20%	10V						
C429	1-109-982-11	CERAMIC CHIP	1uF	10%	10V	C552	1-162-913-11	CERAMIC CHIP	8PF	0.5PF	50V
						C553	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C430	1-164-505-11	CERAMIC CHIP	2.2uF		16V	C555	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C431	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C558	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C432	1-164-505-11	CERAMIC CHIP	2.2uF		16V	C560	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C433	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V						
C434	1-164-816-11	CERAMIC CHIP	220PF	2%	50V	C562	1-135-181-21	TANTALUM CHIP	4.7uF	20%	6.3V
						C565	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C436	1-216-825-11	METAL CHIP	2.2K	5%	1/16W	C601		TANTALUM CHIP	47uF	20%	4V
				(S	UFFIX-12)	C602		CERAMIC CHIP	0.1uF		25V
C437		TANTALUM CHIP		20%	10V	C603	1-164-346-11	CERAMIC CHIP	1uF		16V
C438		CERAMIC CHIP	0.1uF		25V						
C439		TANTALUM CHIP		20%	10V	C604		CERAMIC CHIP	0.22uF	10%	10V
C443	1-115-156-11	CERAMIC CHIP	1uF		10V	C605		CERAMIC CHIP	0.47uF	10%	16V
						C611		TANTALUM CHIP		20%	4V
C451		TANTALUM CHIP		20%	4V	C613		CERAMIC CHIP	4.7uF	400/	10V
C452		CERAMIC CHIP	1uF	F0/	10V	C801	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C501		CERAMIC CHIP	22PF	5%	50V	0000	4 4 4 0 0 4 4 4 4	0554440 01115	0.004 5	400/	E01/
C503		CERAMIC CHIP	0.01uF	10%	25V	C802		CERAMIC CHIP	0.001uF	10%	50V
C504	1-164-362-11	CERAMIC CHIP	470PF	5%	50V	C803		CERAMIC CHIP	0.001uF	10%	50V
OFOE	1 1/0 0/7 11	OEDAMIO OLUD	0.0000	100/	F0\/	C804		CERAMIC CHIP	0.01uF	10%	25V
C505		CERAMIC CHIP	0.0033uF	10%	50V	C805		CERAMIC CHIP	1uF		10V
C506		CERAMIC CHIP	2.2uF	10%	10V	C806	1-104-150-11	CERAMIC CHIP	0.1uF		25V
C509		CERAMIC CHIP	0.1uF		25V	0007	1 115 15/ 11	CEDAMIC CUID	1		101/
C510		CERAMIC CHIP	0.1uF	100/	25V	C807		CERAMIC CHIP TANTALUM CHIP	1uF	200/	10V
C511	1-125-817-11	CERAMIC CHIP	10uF	10%	6.3V	C808 C809				20%	4V
CE12	1 1/5 17/ 11	CEDAMIC CUID	0.047	100/	17//			CERAMIC CHIP	0.01uF	10%	25V
C513 C514		CERAMIC CHIP CERAMIC CHIP	0.047uF 100PF	10% 5%	16V 50V	C810 C811		CERAMIC CHIP	1uF 0.1uF		10V 25V
C514		CERAMIC CHIP	100FF	5%	50V 50V	Coll	1-104-150-11	CERAIVIIC CITIF	U. Tul		23 V
C515		TANTALUM CHIP		20%	4V	C812	1 115 156 11	CERAMIC CHIP	1uF		10V
C517		CERAMIC CHIP	0.0022uF	10%	50V	C813		CERAMIC CHIP	0.033uF	10%	16V
0310	1-102-700-11	CLIVAIVIIC CITII	0.002241	1070	30 V	C815		CERAMIC CHIP	0.035ui 0.1uF	1070	25V
C519	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V	C816		CERAMIC CHIP	1uF		10V
C520		CERAMIC CHIP	680PF	10%	50V	C819		CERAMIC CHIP	0.1uF		25V
C521		CERAMIC CHIP	0.0022uF	10%	50V	0017	1 101 100 11	OLIGINIO OTIII	0.141		201
C522		CERAMIC CHIP	0.22uF	10%	16V			< CONNECTOR >			
C523		CERAMIC CHIP	2.2uF	10%	10V						
						CN501	1-779-761-21	CONNECTOR, FPO	C (ZIF)		
C525	1-104-908-11	TANTALUM CHIP	47uF	20%	4V	CN502		HOUSING, CONNI			
C526	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V	CN503	1-784-342-21	HOUSING, CONN	ECTOR 2P		
C527	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V	CN504	1-784-342-11	HOUSING, CONN	ECTOR 2P		
C528	1-164-156-11	CERAMIC CHIP	0.1uF		25V			CONNECTOR, FFO		24P	
C529	1-104-908-11	TANTALUM CHIP	47uF	20%	4V						
								< DIODE >			
C530	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V						
C531	1-109-994-11	CERAMIC CHIP	2.2uF	10%	10V	D101		DIODE UMZ8.2T			
C532		CERAMIC CHIP	1uF	10%	10V	D201		DIODE UMZ8.2T			
C533		TANTALUM CHIP		20%	4V	D301		DIODE SB007W0	3Q		
C534	1-162-921-11	CERAMIC CHIP	33PF	5%	50V	D303		DIODE UMZ8.2T			
						D304	8-719-039-99	DIODE UMZ8.2T			
C535		CERAMIC CHIP	10PF	0.5PF	50V						
C536			0.1uF	10%	25V	D305		DIODE UMZ8.2T			
C537		TANTALUM CHIP		20%	4V	D306		DIODE UMZ8.2T			
C538			0.33uF	10%	16V	D402		DIODE SFPB-52			
C541	1-164-156-11	CERAMIC CHIP	0.1uF		25V	D404		DIODE RB415D-T			
05.40		0554440 0445			0.51.4	D405	8-719-049-09	DIODE 1SS367-T	3SONY (SU	FFIX-12)	
C542		CERAMIC CHIP	1uF		25V	5.40=		D.O.D.F. O.F.D.D. F.O.			
C543		CERAMIC CHIP	0.1uF		25V	D407		DIODE SFPB-52	20011/		
C544		CERAMIC CHIP	0.1uF	20/	25V	D409		DIODE 188367-T			
C545		CERAMIC CHIP	220PF	2%	50V	D410		DIODE 188367-T			
C546	1-104-816-11	CERAMIC CHIP	220PF	2%	50V	D411		DIODE 188355TE			
CE 47	1 144 014 11	CEDAMIC CLUP	22005	20/	EOV/	D415	d-/19-U49-U9	DIODE 1SS367-T	SOUNY		
C547		CERAMIC CHIP CERAMIC CHIP	220PF 100PF	2% 5%	50V	D/114	0 710 040 00	DIODE 1SS367-T	SCUNIA		
C548 C549		TANTALUM CHIP		5% 20%	50V 10V	D416 D501		DIODE 1SS367-T		EEIV 10\	
C549 C550		CERAMIC CHIP	1uF	20 /0	10V 10V	D601		DIODE 155367-1		111/12)	
C550 C551			0.0047uF	10%	50V	D601		DIODE 155300-1			
0001	1-10Z-700-11	OLIVAIVIIO OHIF	J.004 / ul	10 /0	JU V	D004	0-117-047-09	רוססר ו־מסום - I	JJOINI		

B-719-Q4-9-09   DIOUE INSSER*   ISSNEY	Ref. No.	Part No.	<u>Description</u>		Remark	Ref. No.	Part No.	<u>Description</u>		<u>Remark</u>
B080   8-779-941-99   DIODE DAPOZUJ   14-00   1-000-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0	D801	8-719-049-09	DIODE 1SS367-T	3SONY				FERRITE	(0.1551)( 4.0)	
BOOD   B-719-941-99   DIODE DAPEZQU   LeQ	D003	0 710 041 00	DIODE DADOONI						,	
BOBD   8-719-158-15   DIODE RDS-65-8   L403   1-414-398-11   NOUCIOR   1004										
Debt   8-719-04-90   DiDOE 153367-T350NY   La04										
Column   C										
FROME   BADDICOLINESISTORS   Life										
Hard   1-500-238-22   FERRITE   Dark   Hard   Chip   Chi						L405	1-414-434-11	INDUCTOR	100uH	
FB102   1-26-86-411 MTALCHIP   0   5%   1/16W   1-40-96-21   INDUCTOR CHIP   0H (SUFFIX-11)   1-414-760-21   INDUCTOR CHIP   0H (SUFFIX-12)   1-414-760-22   INDUCTOR CHIP   0H (SUFFIX-12)   1-414-760-21   INDUCTOR CHIP   0H (SUFFIX-12)   1-414-760-21   INDUCTOR CHIP   0H (SUFFIX-12)   1-414-760-22   INDUCTOR CHIP   0H (SUFFIX-12)   1-414-760-21   INDUCTOR CHIP   0H (SUFFIX-12)   1-414-760-21   INDUCTOR CHIP   0H (SUFFIX-12)   1-414-760-22   INDUCTOR CHIP   0H (SUFFIX-12)   1-414-760-21   INDUCTOR CHIP			< FERRITE BEAD	COIL/RESISTOR	>				,	
FB102	55404	4 500 000 00							` ,	
FB102					1/1/\\/					
FB1020	FB102	1-210-804-11	IVIETAL CHIP	0 5%		L407	1-500-451-11	FERRIIE	OUH (SUFFIX-12)	
FB202   1-210-684-11 MFTAL CHIP   0 + 5%   17.6W   15.90   1-414-395-11 INDUCTOR   47.0H   14.0H   1	FB102	1-414-760-21	INDUCTOR CHIP	0uH (SUFFIX-11		L501	1-414-398-11	INDUCTOR	10uH	
SUFFIX-12    L504					,					
F8202	FB202	1-216-864-11	METAL CHIP	0 5%	1/16W	L503	1-414-402-11	INDUCTOR		
H8302					(SUFFIX-12)					
H8301   1-414-228-11   NDUCTOR CHIP   Ouh   5%   1/16W   CSUFFIX-12   1-414-916-11   FERRITE   Ouh (SUFFIX-12	FDOOO	4 44 4 7 ( 0 0 4	INDUIGTOR OUIR	0 11 (011551)/ 44		L505	1-414-402-11	INDUCTOR	47uH	
FB306					)	1 001	1 414 014 11	EEDDITE	Out (CHEELV 12)	
L803					1/16\//				,	
F8306	1 0300	1-210-004-11	WILIAL CITI	0 570						
F8308   1-414-235-22   INDUCTOR CHIP OuH   L812   1-414-916-11   FERRITE   Ouh (SUFFIX-12)	FB306	1-414-760-21	INDUCTOR CHIP	0uH (SUFFIX-11						
FB310					,				,	
FB310										
FB311										
FB601   1-216-295-00   SHORT   O				,	)	L814	1-414-916-11	FERRITE	0uH (SUFFIX-12)	
FB601   1-216-295-00   SHORT   0								, TDANICICTOD .		
C  C  C  C  C  C  C  C  C  C  C  C  C								< TRANSISTOR >	•	
C  C  C  C  C  C  C  C  C  C  C  C  C	1 200 1	1 210 270 00	OHOITH			Q101	8-729-231-74	TRANSISTOR 2	SC4116-GL	
C301   8.759-483-60   IC TC9438FNEL   C302   8.759-5252-87   IC TA2120FN (EL)   C302   8.759-5252-87   IC MPC18AZEVMEL   C303   8.729-028-92   TRANSISTOR DTA114TUA-T106 (SUFFIX-12)   C304   8.759-483-61   IC MPC18AZEVMEL   C402   8.759-484-04   IC S-81340HC-KJ-T1   C401   8.759-387-31   IC TC75555F (TE85R)   C402   8.759-387-31   IC TC75555F (TE85R)   C403   8.729-024-10   FET MMBF0201NLT1   C505   8.759-483-62   IC MPC17A51VMEL   C505   8.759-483-62   IC MPC17A51VMEL   C505   8.759-387-31   IC TC75555F (TE85R)   C406   8.729-043-46   FET MMBF2201NT1   C505   8.759-387-31   IC TC75555F (TE85R)   C406   8.729-043-46   FET MMBF2201NT1   C506   8.759-387-31   IC TC75555F (TE85R)   C406   8.729-043-46   FET MMBF2201NT1   C507   8.759-387-31   IC TC75555F (TE85R)   C407   8.729-230-60   TRANSISTOR 25D1870   C407   8.729-230-60   TRANSISTOR 25D186-YG   C407   8.729-231-74   TRANSISTOR 25D116-GL   C407   8.729-231-74   TRANSISTOR 25D116-GL   C407   8.729-231-74   TRANSISTOR 25D116-GL   C407   C407   8.729-231-74   TRANSISTOR 25D116-GL   C407			< IC >							
C302   8-759-482-87   IC TA2120FN (EL)   C304   8-729-028-74 TRANSISTOR DTA114TUA-T106   C10401   8-759-483-61   IC MPC18A26VMEL   C403   8-759-483-61   IC TC75555F (TE85R)   C402   8-729-902-85 TRANSISTOR 2SD1164-OR   C403   8-759-387-31   IC TC75555F (TE85R)   C403   8-729-904-10   FET MMBF0201NLT1   C10501   8-759-432-83   IC BA6386K   C405   8-729-304-66 TRANSISTOR 2SD11870   C502   8-759-535-34   IC MPC17A51VMEL   C10505   8-759-387-31   IC TC75555F (TE85R)   C406   8-729-043-46   FET MMBF2201NT1   C10507   8-759-082-60   IC TC7566FU   C408   8-729-043-46   FET MMBF2201NT1   C10507   R-759-683-43   IC TC75555F (TE85R)   C406   8-729-043-46   FET MMBF2201NT1   C10507   R-759-683-48   IC MSM51070   C409   8-729-230-60   TRANSISTOR 2SA1586-YG   C406   8-729-043-46   FET MMBF2201NT1   C10507   R-759-683-48   IC MSM51071   C409   R-729-230-60   TRANSISTOR 2SA1586-YG   C410   R-729-043-46   FET MMBF2201NT1   C409   R-729-230-60   TRANSISTOR 2SA1586-YG   C410   R-729-230-60   R-729-230-74   TRANSISTOR 2SA1586-YG   C410   R-729-230-74   TRANSISTOR 2SA1586-YG   C410   R-729-230-74   TRANSISTOR 2SA1586-YG   C410						Q302	8-729-907-39	TRANSISTOR IN	ЛD2	
IC401										UFFIX-12)
C402			•	,		Q304	8-729-028-74	TRANSISTOR D	TA114TUA-T106	
C403   8-759-387-31   C   TC75S55F (TE85R)   C404   8-729-044-10   FET   MMBF0201NLT1   MMBF0201NT1   M						0401	0 720 020 05	TDANICISTOD 2	CD1444 OD	
C501   8-759-432-83   C   BA6386K   C   BU9326KS   C   BU9326KS   C   C   Bu9326KS										
ICS01	10403	0 707 307 31	10 10733331 (1	Losity						
IC504   8-759-483-62   IC MPC17A51VMEL   IC505   8-759-387-31   IC TC75555F (TE85R)   O407   8-729-043-46   FET   MMBF2201NT1   O408   8-729-043-46   FET   MMBF2201NT1   O409   8-729-230-60   TRANSISTOR   2SA1586-YG   O410   8-729-028-60   TRANSISTOR   2SA1586-YG   O410   8-729-028-74   TRANSISTOR   2SC4116-GL   O417   8-729-028-74   TRANSISTOR   2SC4116-GL   O417   8-729-028-74   TRANSISTOR   D4114TUA-T106   O418   8-729-028-74   TRANSISTOR   D4114TUA-T106   O418   8-729-028-74   TRANSISTOR   D4114TUA-T106   O418   8-729-028-74   TRANSISTOR   D4114TUA-T106   O419   O419	IC501	8-759-432-83	IC BA6386K							
IC505   8-759-387-31   IC TC75555F (TE85R)   C1507   R-759-082-60   IC TC7566FU   C2506FU   C2	IC502					Q406	8-729-043-46	FET MMBF2	2201NT1	
IC507   8-759-082-60   IC TC7566FU   Q408   8-729-034-46   FET   MMBF2201NT1   Q409   8-729-230-60   TRANSISTOR   2SA1586-YG   Q410   8-729-230-60   TRANSISTOR   2SA1586-YG   Q410   8-729-230-60   TRANSISTOR   2SA1586-YG   Q410   8-729-231-74   TRANSISTOR   2SA1586-YG   Q410   8-729-231-74   TRANSISTOR   2SA1586-YG   Q410   8-729-231-74   TRANSISTOR   2SA1586-YG   Q410   8-729-231-74   TRANSISTOR   2SC4116-GL   Q417   8-729-231-74   TRANSISTOR   2SC4116-GL   Q417   8-729-231-74   TRANSISTOR   2SC4116-GL   Q418   8-729-231-74   TRANSISTOR   2SC4116-GL   Q419   R419										
C601   8-759-484-37   IC   SM5902AF   C602   8-759-538-44   IC   SM5902AF   C602   8-759-538-44   IC   MC68HC05L24-SC440482CFU (SUFFIX-11)   C601   8-759-565-44   IC   MC68HC05L24-SC440488CFU (SUFFIX-12)   C701   C701				E85R)						
1C601	IC507	8-759-082-60	IC 1C/S66FU							
1C602	IC601	8-759-484-37	IC SM5902AF							
1C801				00D-10TK-FS						
Company					(SUFFIX-11)				()	
Section   Se	IC801	8-759-576-65	IC MC68HC05L2	24-SC440488CFU	(SUFFIX-12)	Q414				
Q452   8-729-028-74   TRANSISTOR DTA114TUA-T106 (SUFFIX-12)										
J301 8-749-015-13 DIODE GP1FB200TK (LINE OUT (OPTICAL)) J302 1-778-368-31 JACK, HEADPHONE (∩/REMOTE) J401 1-778-153-21 JACK,DC(POLARITY UNIFIED TYPE)  (DC IN 4.5V)  (DC			< JACK/DIODE >							UEEUV 40\
J302   1-778-368-31   JACK, HEADPHONE (\(\hat{O}\)/REMOTE)   J401   1-778-153-21   JACK, DC(POLARITY UNIFIED TYPE) (DC IN 4.5V) (DC IN 4.5V)   Q505   8-729-028-74   TRANSISTOR DTA114TUA-T106   Q511   8-729-028-74   TRANSISTOR DTA114TUA-T106   Q511   8-729-028-74   TRANSISTOR DTA114TUA-T106   Q511   8-729-028-74   TRANSISTOR DTA114TUA-T106   Q513   8-729-028-74   TRANSISTOR DTA114TUA-T106   Q601   8-729-029-06   TRANSISTOR DTC124EUA-T106   Q601   8-729-029-06   TRANSISTOR DTC124EUA-T106   Q603   8-729-924-28   TRANSISTOR DTC124EUA-T106   Q603   8-729-029-06   TRANSISTOR DTC124EUA-T106   Q603   8-729-029-06   TRANSISTOR DTC124EUA-T106   Q603   8-729-029-06   TRANSISTOR DTC124EUA-T106   Q801   8-729-231-74   TRANSISTOR DTC124EUA-T106   Q801   8-729-231-74   TRANSISTOR DTC124EUA-T106   Q801   R-729-231-74   TRANSISTOR DTC124EUA-T106   Q801   R-729-231-74   TRANSISTOR DTC124EUA-T106   Q801   R-729-029-06   TRANSISTOR DTC124EUA-T106   Q801   R-729-029-06   TRANSISTOR DTC124EUA-T106   Q801   R-729-231-74   TRANSISTOR DTC124EUA-T106   Q801   R-729-029-06   TRANSISTOR DTC124EUA-T106   Q	1201	0 740 015 12	DIODE CD1ED20	OTV (LINE OUT (	ODTICAL \\					
J401   1-778-153-21   JACK,DC(POLARITY UNIFIED TYPE)					OPTICAL))	Q433	0-729-020-20	TEI ZONIO	29 (TEODE) (SUFFIX	-12)
(DC IN 4.5V)					Ξ)	Q501	8-729-028-74	TRANSISTOR D	TA114TUA-T106	
SHORT >			, ,				8-729-028-74	TRANSISTOR D	TA114TUA-T106	
Description						Q511	8-729-028-74	TRANSISTOR D	TA114TUA-T106	
JC502       1-216-295-00       SHORT       0         JC503       1-216-295-00       SHORT       0         Q602       8-729-924-28       TRANSISTOR       DTC124EUA-T106         Q603       8-729-029-06       TRANSISTOR       DTC124EUA-T106         Q801       8-729-231-74       TRANSISTOR       2SC4116-GL         L111       1-414-916-11       FERRITE       Ouh (SUFFIX-12)       CRESISTOR >         L211       1-414-916-11       FERRITE       Ouh (SUFFIX-12)       FR1       1-216-295-00       SHORT       0         L302       1-414-916-11       FERRITE       Ouh       R3       1-216-295-00       SHORT       0 (SUFFIX-11)			< SHORT >							
JC503       1-216-295-00       SHORT       0       Q602       8-729-924-28       TRANSISTOR DTA123YU         Q603       8-729-029-06       TRANSISTOR DTC124EUA-T106         Q801       8-729-231-74       TRANSISTOR DTC124EUA-T106	10500	1 01/ 005 00	CHODT	0		Q601	8-729-029-06	TRANSISTOR D	TC124EUA-T106	
COIL/FERRITE BEAD >   Q603   8-729-029-06   TRANSISTOR   DTC124EUA-T106   Q801   8-729-231-74   TRANSISTOR   2SC4116-GL						0402	0 720 024 20	TDANICICTOD D	TA122VII	
COIL/FERRITE BEAD >       Q801       8-729-231-74       TRANSISTOR 2SC4116-GL         L111       1-414-916-11 FERRITE       OuH (SUFFIX-12)       < RESISTOR >         L211       1-414-916-11 FERRITE       OuH (SUFFIX-12)         L301       1-414-916-11 FERRITE       OuH       R1       1-216-295-00 SHORT       0         L302       1-414-916-11 FERRITE       OuH       R3       1-216-295-00 SHORT       0 (SUFFIX-11)	30303	1-210-293-00	SHOKI	U						
L111 1-414-916-11 FERRITE OUH (SUFFIX-12) < RESISTOR >  L211 1-414-916-11 FERRITE OUH (SUFFIX-12)  L301 1-414-916-11 FERRITE OUH R1 1-216-295-00 SHORT 0  L302 1-414-916-11 FERRITE OUH R3 1-216-295-00 SHORT 0 (SUFFIX-11)			< COIL/FERRITE I	BEAD >						
L211       1-414-916-11 FERRITE       OuH (SUFFIX-12)         L301       1-414-916-11 FERRITE       OuH       R1       1-216-295-00 SHORT       0         L302       1-414-916-11 FERRITE       OuH       R3       1-216-295-00 SHORT       0 (SUFFIX-11)										
L301       1-414-916-11 FERRITE       0uH       R1       1-216-295-00 SHORT       0         L302       1-414-916-11 FERRITE       0uH       R3       1-216-295-00 SHORT       0 (SUFFIX-11)				•	•			< RESISTOR >		
L302 1-414-916-11 FERRITE 0uH R3 1-216-295-00 SHORT 0 (SUFFIX-11)				•	)			01100-		
L300 1-414-710-11 ILMMIL 0011 1-210-013-11 WEIAL 011F 220 370 1/10W										1/16\//
	L300	, 71 <b>7</b> -710-11	LIMITE	Juli		A TOT	1 210-013-11	WEINE OITH	220 J/0	17 10 00

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
	1-216-845-11		100V	5%	1/16W				2 21/1	5%	1/16W
R102			100K			R438	1-216-861-11		2.2M		
R103	1-216-839-11	METAL CHIP	33K	5%	1/16W	R439	1-218-740-11		100K	0.5%	1/16W
				(	EXCEPT FR)	R440	1-218-881-11		27K	0.5%	1/16W
5400			45014	=0.		R441	1-216-833-11		10K	5%	1/16W
R103	1-216-847-11	METAL CHIP	150K	5%	1/16W	R442	1-216-833-11	METAL CHIP	10K	5%	1/16W
					(FR)						
R104	1-216-815-11		330	5%	1/16W	R443	1-216-833-11	METAL CHIP	10K	5%	1/16W
R105	1-216-821-11	METAL CHIP	1K	5%	1/16W	R444	1-216-853-11	METAL CHIP	470K	5%	1/16W
R107	1-216-789-11	METAL CHIP	2.2	5%	1/16W	R445	1-220-800-91	RES, CHIP	1.5M	0.5%	
R201	1-216-813-11	METAL CHIP	220	5%	1/16W	R448	1-216-857-11	METAL CHIP	1M	5%	1/16W
						R449	1-218-446-11	METAL CHIP	1	5%	1/16W
R202	1-216-845-11	METAL CHIP	100K	5%	1/16W						
R203	1-216-839-11	METAL CHIP	33K	5%	1/16W	R451	1-216-839-11	METAL CHIP	33K	5%	1/16W
				(	EXCEPT FR)	R452	1-216-845-11		100K	5%	1/16W
R204	1-216-815-11	METAL CHIP	330	5%	1/16W	R454	1-216-857-11		1M	5%	1/16W
R205	1-216-821-11		1K	5%	1/16W	101	1 210 007 11	WEINE OIM			SUFFIX-12)
R207	1-216-789-11		2.2	5%	1/16W	R501	1-216-848-11	METAL CHID	180K	5%	1/16W
11207	1-210-707-11	WEIAL OIIII	2.2	370	171000	1001	1-210-040-11	WILTAL CITII	TOOK		SUFFIX-11)
R208	1-216-847-11	METAL CHID	150K	5%	1/16W	R502	1-216-829-11	METAL CHID	4.7K	5%	1/16W
K200	1-210-04/-11	WE TAL CHIP	130K	376		K302	1-210-029-11	IVIE TAL CHIP	4./K	376	1/1000
D202	1 01/ 0/4 11	METAL OLUD	0	F0/	(FR)	DEGG	1 01/ 000 11	METAL OLUD	4.71/	F0/	1/1/11/
R302	1-216-864-11		0	5%	1/16W	R503	1-216-829-11		4.7K	5%	1/16W
R303	1-216-853-11		470K	5%	1/16W	R504	1-216-838-11	METAL CHIP	27K	5%	1/16W
R304	1-216-805-11		47	5%	1/16W					•	SUFFIX-12)
R305	1-216-864-11	METAL CHIP	0	5%	1/16W	R504	1-216-839-11	METAL CHIP	33K	5%	1/16W
					(SUFFIX-11)					•	SUFFIX-11)
						R505	1-216-832-11	METAL CHIP	8.2K	5%	1/16W
R306	1-216-809-11	METAL CHIP	100	5%	1/16W					(5	SUFFIX-11)
R311	1-216-821-11	METAL CHIP	1K	5%	1/16W	R505	1-216-834-11	METAL CHIP	12K	5%	1/16W
R312	1-216-142-00	RES, CHIP	4.7	5%	1/8W					()	SUFFIX-12)
R351	1-216-864-11	METAL CHIP	0	5%	1/16W						
R352	1-216-295-00	SHORT	0			R506	1-216-833-11	METAL CHIP	10K	5%	1/16W
						R509	1-216-835-11	METAL CHIP	15K	5%	1/16W
R401	1-216-815-11	METAL CHIP	330	5%	1/16W	R510	1-218-877-11		18K	0.5%	1/16W
R402	1-216-857-11		1M	5%	1/16W						SUFFIX-11)
R403	1-216-864-11		0	5%	1/16W	R511	1-216-833-11	METAL CHIP	10K	5%	1/16W
11403	1 210 004 11	WEINE OIIII	O		(SUFFIX-11)	R511	1-216-845-11		100K	5%	1/16W
R405	1-216-837-11	METAL CLID	22K	5%	1/16W	IK312	1-210-043-11	WETAL OTT	TOOK	370	171000
R407	1-216-825-11		2.2K	5%	1/16W	R513	1-216-821-11	METAL CHID	1K	5%	1/16W
K407	1-210-025-11	WIL TAL CITIF	Z.ZK	3 /0	1/1000	R513	1-216-837-11		22K	5%	1/16W
D400	1 01/ 000 11	METAL CLUD	101/	Ε0/	1/1/\\/						
R408	1-216-833-11		10K	5%	1/16W	R518	1-216-833-11		10K	5%	1/16W
R410	1-216-864-11		0	5%	1/16W	R519	1-216-831-11		6.8K	5%	1/16W
R411	1-216-029-00		150	5%	1/10W	R521	1-216-836-11	METAL CHIP	18K	5%	1/16W
R412	1-216-298-00		2.2	5%	1/10W						
R413	1-216-298-00	METAL CHIP	2.2	5%	1/10W	R522	1-216-857-11		1M	5%	1/16W
						R523	1-216-864-11		0	5%	1/16W
R414	1-216-302-00		2.7	5%	1/10W	R524	1-216-843-11	METAL CHIP	68K	5%	1/16W
R415	1-216-833-11	METAL CHIP	10K	5%	1/16W					(5	SUFFIX-11)
R417	1-218-716-11	METAL CHIP	10K	0.5%	1/16W	R525	1-216-821-11	METAL CHIP	1K	5%	1/16W
R418	1-216-857-11	METAL CHIP	1M	5%	1/16W	R526	1-216-821-11	METAL CHIP	1K	5%	1/16W
R419	1-216-857-11	METAL CHIP	1M	5%	1/16W						
						R528	1-216-836-11	METAL CHIP	18K	5%	1/16W
R420	1-218-728-11	METAL CHIP	33K	0.5%	1/16W					(9	SUFFIX-11)
R421	1-216-864-11		0	5%	1/16W	R528	1-216-837-11	METAL CHIP	22K	5%	1/16W
R422	1-218-891-11		68K	0.5%							SUFFIX-12)
R423	1-216-839-11		33K	5%	1/16W	R531	1-216-821-11	METAL CHIP	1K	5%	1/16W
R424	1-216-845-11		100K	5%	1/16W	R532	1-216-825-11		2.2K	5%	1/16W
NAZA	1-210-043-11	WETAL OTH	TOOK	370	171000	R533	1-216-841-11		47K	5%	1/16W
R427	1-216-833-11	METAL CLID	10K	5%	1/16W	1000	1-210-041-11	WILTAL CITII	4710	3 70	1/1000
						DESA	1 01/ 0// 11	METAL CLUD	0	F0/	1/1/\\
R428	1-216-805-11		47 4 01	5%	1/16W	R534	1-216-864-11		0	5%	1/16W
R430	1-218-867-11		6.8K	0.5%		R535	1-216-827-11		3.3K	5%	1/16W
R431	1-216-861-11		2.2M	5%	1/16W	R538	1-216-833-11		10K	5%	1/16W
R432	1-218-895-11	RES, CHIP	100K	0.5%	1/16W	R542	1-218-748-11		220K	0.5%	1/16W
		DE0 *****				R543	1-216-845-11	METAL CHIP	100K	5%	1/16W
R433	1-218-913-91		560K	0.5%							
R434	1-216-861-11		2.2M	5%	1/16W	R545	1-216-849-11		220K	5%	1/16W
R435	1-220-800-91		1.5M	0.5%		R547	1-216-825-11		2.2K	5%	1/16W
R436	1-218-913-91		560K	0.5%		R548	1-216-825-11		2.2K	5%	1/16W
R437	1-216-857-11	METAL CHIP	1M	5%	1/16W	R549	1-216-833-11	METAL CHIP	10K	5%	1/16W
						l				(5	SUFFIX-11)

Ref. No.	Part No.	Description			Remark	Ref. No	o. Part No.	Descriptio	n			Remark
IXEL INO.	<u>r art no.</u>	Description			Kemark					11/	E0/	1/16W
R549	1-216-834-11	METAL CHIP	12K	5%	1/16W	R85				1K 1K	5% 5%	1/16W
11047	1 210 004 11	WEINE OIIII	1210		SUFFIX-12)	R85				1K	5%	1/16W
R550	1-216-864-11	METAL CHIP	0	5% `	1/16W							
R551	1-216-845-11		100K	5%	1/16W	R85	8 1-216-821-11	METAL CH	IP	1K	5%	1/16W
R552	1-216-841-11	METAL CHIP	47K	5%	1/16W			VADIADI	F DE01	CTOD		
DE/7	1 210 740 11	METAL CLUD	1001/	•	SUFFIX-12)			< VARIABL	.E RESI	STOR >		
R567	1-218-740-11	WETAL CHIP	100K	0.5%	1/16W	RV3	01 1-225-468-21	RFS VAR	CARRO	ON 10K/10	K — VC	)  )
R569	1-216-843-11	METAL CHIP	68K	5%	1/16W		01 1-241-395-11					, _ ,
				(5	SUFFIX-12)	RV5	02 1-223-996-21	RES, CARE	BON AD	J VAR 221	<	
R569	1-216-846-11	METAL CHIP	120K	5%	1/16W	RV5	03 1-223-996-21	RES, CARE	BON AD	)J VAR 221	<	
DE70	1 01/ 051 11	METAL CLUD	2201/	•	SUFFIX-11)			. CWITCH				
R570 R571	1-216-851-11 1-216-829-11		330K 4.7K	5% 5%	1/16W 1/16W			< SWITCH	>			
R576	1-216-829-11		4.7K	5%	1/16W	S30 <sup>-</sup>	1 1-762-078-11	SWITCH, S	SLIDE (	AVLS)		
						S80°	1 1-692-366-31	SWITCH, F	PUSH ( <sup>*</sup>	1 KEY) (OF	PEN)	
R602	1-216-833-11		10K	5%	1/16W	S80:						
R603	1-216-837-11		22K	5%	1/16W	S80	1-762-078-11	SWITCH, S	SLIDE (	HOLD 📥	<b>-</b> )	
R604 R605	1-216-833-11 1-216-864-11		10K 0	5% 5%	1/16W 1/16W			< TRANSF	ODMED	) .		
R606	1-216-864-11		0	5%	1/16W			< INAINSI	JKIVILK	. >		
11000	1 210 001 11	WEINE OIM	Ü	070	171011	T40	I 1-431-557-11	TRANSFOR	RMER,	DC-DC CO	NVERTE	R
R607	1-216-864-11	METAL CHIP	0	5%	1/16W							
R609	1-216-837-11		22K	5%	1/16W			< VIBRATO	)R >			
R612	1-216-821-11		1K	5%	1/16W		4 7/7 /05 44	LUDDATOD				
R651 R652	1-216-864-11 1-216-864-11		0 0	5% 5%	1/16W 1/16W	X30	1 1-767-605-11	VIBRATOR	, LITHI	UIVI TANTA		5.9344MHz)
11032	1-210-004-11	WILTAL CITII	U	370	1/1000	X80	1 1-767-192-11	VIBRATOR	. CERA	MIC (4.19	`	). 7344IVII IZ)
R801	1-216-821-11	METAL CHIP	1K	5%	1/16W		******		,	`	,	*****
R802	1-216-833-11	METAL CHIP	10K	5%	1/16W							
R803	1-216-821-11		1K	5%	1/16W			MISCELLA				
R804 R805	1-216-854-11		560K	5% 5%	1/16W			******	*****			
R805	1-216-861-11	METAL CHIP	2.2M	5%	1/16W	8	1-475-998-11	SWITCH II	NIT			
R806	1-216-857-11	METAL CHIP	1M	5%	1/16W	104	1-783-093-11			NECTOR)		
R807	1-216-857-11		1M	5%	1/16W	109	1-667-512-11					
R808	1-216-845-11		100K	5%	1/16W	110 110 110	X-4950-476-1			•	E)	
R809	1-216-857-11		1M	5%	1/16W	M90	1 A-3311-902-A	MOTOR AS	SSY, SL	.ED		
R810	1-216-857-11	METAL CHIP	1M	5%	1/16W	M90	2 A-3320-642-A	MOTOD AS	CCV TII	IDNI TADI E	(SDINID	I E)
R811	1-216-845-11	METAL CHIP	100K	5%	1/16W	S90			,		- (SFIND	LL)
R812	1-216-857-11		1M	5%	1/16W		*******	`	,	` ,	*****	*****
R814	1-216-829-11	METAL CHIP	4.7K	5%	1/16W							
R815	1-216-833-11		10K	5%	1/16W		ACCESSORIES					
R818	1-216-864-11	METAL CHIP	0	5%	1/16W		********	*******	*****	****		
R819	1-216-857-11	METAL CHIP	1M	5%	1/16W	$\triangle$	1-467-007-21	ADAPTOR	ΔC (Δ(	^_F455) <i>(4</i>	(2III	
11017	1 210 007 11	WEINE OIIII	1101		SUFFIX-11)	<u>A</u>	1-467-009-21		,	, ,		
R820	1-216-857-11	METAL CHIP	1M	5%	1/16W	<u> </u>	1-467-550-11		•	, ,		
				•	SUFFIX-12)	1	1-473-115-11		•	,	(UK)	
R822	1-218-883-11		33K	0.5%	1/16W	1	1-473-116-35	ADAPTOR,	AC (A	· .	4 E D E D	C FF F13\
R823 R824	1-216-849-11 1-216-845-11		220K 100K	5% 5%	1/16W 1/16W					(,	ALP, FK,	G, EE, E13)
11024	1 210-0 <del>1</del> 0-11	WEIME OITH	1001	370	17 10 44	$\triangle$	1-475-622-11	ADAPTOR	AC (A	C-E455) ((	CH)	
R825	1-216-851-11	METAL CHIP	330K	5%	1/16W	<u></u>	1-475-623-11		•	, ,	,	
R826	1-216-851-11	METAL CHIP	330K	5%	1/16W		1-475-995-11			•		•
R827	1-216-851-11		330K	5%	1/16W	<u> </u>	1-569-007-11					EW)
R828 R829	1-218-897-11		120K	0.5%	1/16W	<u> </u>	1-569-008-21	ADAPTOR,	CONVI	ERSION 21	P (E13)	
K829	1-218-891-11	RES, CHIP	68K	0.5%	1/16W		3-864-764-01	MANIIAI	INSTRI	ICTION (1	APANES	F
R830	1-218-887-11	RES, CHIP	47K	0.5%	1/16W		0 001 701 01	IVII (I VOI LE,		3011011 (3		ISH) (JEW)
R835	1-216-821-11		1K	5%	1/16W		3-864-764-11	MANUAL,	INSTRU	JCTION (S		, , ,
R836	1-218-740-11		100K	0.5%	1/16W		0.044 =		INICT=	IOTIOI: /	•	, E33, JEW)
R837	1-218-740-11		100K	0.5%	1/16W		3-864-764-21	MANUAL,	instrl		,	
R840	1-216-857-11	IVIE IAL CHIP	1M	5%	1/16W		3-864-764-31	ΜΔΝΙΙΔΙ	INISTRI	•		13, HK, CH)
R849	1-216-821-11	METAL CHIP	1K	5%	1/16W		J-004-704-31	IVIAINUAL,	MICINI	* .		P, FR, JEW)
R853	1-216-821-11		1K	5%	1/16W	_						,
							The components identified the components ide	ntified by	Les co	mposants	identifié	s par une es pour la
						n	nark 🛆 are critical f	or safety.	sécurite	ź.	_	_
							Replace only with poer specified.	art num-	Ne les	remplacer le numéro	que par	une pièce
					_ 5	50 — <sup>[[]</sup>	er specified.		portant	ie numero	speciii	
					- 3	.0 —						

Ref. No.	Part No.	<u>Description</u>	<u>Remark</u>
	3-864-764-41	MANUAL, INSTRUCTION (DUTCH) (A	AEP, EE)
	3-864-764-51 3-864-764-61	MANUAL, INSTRUCTION (SWEDISH) MANUAL, INSTRUCTION (PORTUGU	, ,
	3-864-764-71	MANUAL, INSTRUCTION (GERMAN)	` '
	3-864-764-81	MANUAL, INSTRUCTION (ITALIAN) (	(AEP)
	3-864-764-91	MANUAL, INSTRUCTION (FINNISH)	(AEP)
	3-864-765-11 3-864-765-21	MANUAL, INSTRUCTION (CHINESE) MANUAL, INSTRUCTION (ENGLISH) (E1	
	3-864-765-31	MANUAL, INSTRUCTION (CHINESE)	,
	3-864-766-51	MANUAL, INSTRUCTION (KOREAN)	(JEW)
	3-864-766-61	MANUAL, INSTRUCTION (CHINESE)	(JEW)
	4-993-659-01 8-953-218-91	CASE, CARRYING RECEIVER MDR-E838SP/SK SET (EX	(CEPT US)
	8-953-276-90	HEADPHONE MDR-24SP SET (US)	
	X-4949-267-1	CASE ASSY, BATTERY	

### D-E707/E775